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A Survey of the Flora of the Anaimalai Hills in the Coimbatore District Madras Presidency

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By C. E. C. FISCHER

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A SURVEY OF THE FLORA OF THE ANAIMALAI HILLS IN THE COIMBATORE DISTRICT, MADRAS PRESIDENCY

BY

C. E. C. FISCHER, I.F.S.

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A SURVEY OF THE FLORA OF THE ANAIMALAI HILLS IN THE COIMBATORE DISTRICT MADRAS PRESIDENCY.

BY

C. E. C. FISCHER, I.F.S.

GENERAL ACCOUNT.

Topography. The area covered by the following survey lies between 76°43′ and 77°26′ E. and 10°13′ and 10°32′ N. It forms the mass of hills known as the Coimbatore Anaimalais. They are continuous with the vast range of mountains that runs southwards through the Travancore State. On the West they are cut off from the Neliampatti Hills by the valley of the Tekkadi river and on the East from the Palni Hills by the valley of the Puchaiar. The northern slopes descend precipitously to the plains of Central Coimbatore. The range is separated from the Aiyamalai and Bolampatti Hills, which connect on to the Nilgiri Hills, by the break in the Western Ghats known as the " Palghat gap " which is about 20 miles wide.

The elevations vary from about 900 feet above mean sea-level, in the north-eastern corner, and about 1,200 feet in the north-western corner to 8,244 feet (Thanakumalai Peak, see plate IV) in the centre.

The range is divided into approximately equal eastern and western halves by the Torakadavu stream, which, rising close to the Travancore frontier at Chindalindamalai, runs in a northerly direction to flow into the Ali-ar near the northern boundary of our area. The Ali-ar forms a considerable water fall into the plains and thence flowing westwards empties itself into the Ponani river near Palghat and eventually into the Indian Ocean a little south of Calicut.

The central mass of the range is the highest, rising to over 7,000 feet on either side of the Torakadavu and diminishing gradually East and West. In the East the Amaravati river flows northwards out of Travancore, cutting off a narrow belt of low hills between it and its tributary the Puchai-ar. The elevations along the Amaravati run from 900 to 1,500 feet. East of the Amaravati the peaks do not exceed 3,300 feet. To the West the fall is more or less continuous to the Tekkadi river, and to the Periyar further South, where the elevation is about 1,500 feet.

To the South there is no clear topographical feature dividing the tract under survey from the Travancore ranges which culminate with Anaimudi Peak, the highest point in Southern India with an elevation of approximately 8,800 feet.

The higher hills are quite trackless, except for occasional game paths. In the dense evergreen woods one has to cut a way at the expense of considerable labour and it is very easy to lose one's sense of direction in these featureless forests.

With the exception of three roads, running more or less north and south, and the system of roads within the plantations, the communications do not permit of wheeled traffic. The conveyance of baggage has to be arranged for either by elephants or by porterage.

Roughly two-fifths of the area drains eastwards into the Bay of Bengal by the Channel of the Amaravati river and its tributaries, itself an affluent of the Kaveri. The remainder sends its waters into the Indian Ocean, either, as already detailed, by way of the Ali-ar or through the Tekkadi-ar, Periyar and Sholai-ar, all three of which flow through the State of Cochin.

Geology. The geological formation is metamorphic, the rock being granitic gneiss. The absence of lime is remarkable.

The soils vary from extremely poor and shallow, especially in the dry eastern region where they have been subjected to much wash and erosion, to extremely rich and deep in the moister localities and where age-long virgin forest has occupied and enriched the land.

The soil in the moist, deciduous western forests is very clayey and apt to become water-logged in the low-lying places.

The planting zone, between 3,000 and 5,000 feet, where the median evergreen type of forests prevails, has a rich porous soil, full of organic matter.

There are large expanses of bare rock ; here a few hardy plants manage to exist in the fissures where small accumulations of soil and debris have lodged.

Rainfall and Climate. There are remarkable variations in the rainfall and the climate with regard to the smallness of the area comprised (about 43 miles from east to west and an average of 12 miles from north to south).

The hills intercept the south-west monsoon winds that sweep across the Cochin forests, consequently the rainfall on the south-western slopes is considerable, averaging from 120 to 150 inches in the year. On the north-west the Neliampatti Hills have already taken toll of the rain clouds and

the fall recorded at Mount Stuart (2,250 feet) averages but 60 inches. On the higher ranges in the central massif the precipitation is again higher but no record of the actual fall is available. At Attakatti (3,000 feet) at the centre of the northern slopes the average is about 80 inches. Towards the East precipitation diminishes very rapidly and on the plains near the "débouchement" of the Amaravati the fall is only 18 inches, the greater part of which is received during the north-east monsoon in October and November. In the central and western parts the rains begin usually before the middle of June and the heaviest fall is in July; somewhat less is received in August and comparatively little in September, between the two monsoons. In the latter half of October and the first half of November heavy precipitation again occurs. From December to June only occasional showers are experienced yielding only a few inches for the whole period.

The temperature curve is the reverse of that which indicates the rainfall, that is to say, subject to the influence of elevation, the temperature is high where the rainfall is low and low where the fall is great.

On the high-level plateaus the temperature is delightful in the warm and dry months and distinctly cold and bracing from December to February, but the climate is marred by frequent dense, chilly mists.

The whole range has a bad reputation for malarial fever. As usual, this is an exaggeration, but undoubtedly the foot of the hills and the lower valleys are to be avoided, especially in the dry season, from March to May.

Hill tribes. Four distinct tribes of hill-men inhabit the Anaimalais.

The Kadirs are probably the best known outside the locality since they are the most primitive and the most interesting ethnologically. Among them the front teeth of the males are filed to a point when they reach adolescence. As a general rule they have no settled abodes or definite villages. They wander from place to place in the evergreen forests, according to season, moved by the dates of maturity of the several wild products they live on: fruits, roots, honey, etc. Temporary dwellings are constructed wherever convenient; bamboo huts with watertight roofs of leaves or grass for the rainy season and for the dry weather mere lean-to shelters consisting of parallelogramic frames of bamboo, thatched with leaves or grass, supported at a steep slope by a couple of rough posts.

Their cultivation is limited and primitive, being confined to small patches of *Eleusine coracana* Gaertn. in temporary clearings along streams. They are much addicted to the practice of opium eating.

The Pulaiyas are a less unsophisticated and less pleasant race; very lazy and very dirty. They have permanent villages which, however, are

moved every few years to follow their shifting cultivation, or abandoned in haste with the appearance of epidemic diseases.

They, like the next race, cultivate several crops: *Andropogon Sorghum* Brot., *Eleusine coracana* Gaertn., *Amarantus paniculatus* Linn., and *Ipomoea Batatas* Poir. They are also suspected of growing "Ganja" (*Canabis sativa* Linn.), the cultivation of which is prohibited, but no real evidence ofthis is forthcoming.

They will eat the flesh of the Indian Bison (Gaur) which neither the Kadirs nor the Muduvas will touch, as the latter hold that animal in some reverence as being of the nature of a bull or cow, in spite of which they will assist the sportsman in stalking these fine beasts; once killed, however, they will not approach within 5 yards of the carcase.

The Malasas are similar in many ways to the Pulaiyas but are in closer contact with the people of the plains, often living close to them and performing agricultural labour and other servitude for them. They will not, however, move far from the foot of the hills.

Finally, the Muduvas, who hold themselves as the aristocracy of the hills and occupy among these hill tribes a position analogous to that of the Brahmins among the Hindus. They are supposed to be descendants of plains people who fled to the hills before the Mahomedan invaders of Tippoo. They are somewhat cleaner, more intelligent and more industrious than the other tribes, but otherwise do not materially differ from them in mode of life.

There is also a small settlement of Irulas near Paralai, but these people were brought over from the Nilgiris for work on coffee plantations.

Fauna. As implied by the name of the range (Anaimalai is a literal Tamil translation of Elephant Hill) the Indian elephant abounds in these hills. They are little molested and have become a source of anxiety to the planters and cultivators and are frequently dangerous to human life. A few are captured every year in pits by the officers of the Forest Department, but this does not affect their numbers perceptibly.

The Indian Bison or Gaur (*Gavizeus gaurus*) is common both in the lower moist forests and on the high grassy downs, where it grazes almost side by side with large herds of the Nilgiri goat (*Hemitragus hylocrius*).

Tigers are not very common, but panthers are more frequent and black specimens are not rare.

Other animals of interest to the sportsman are: the sambar, spotted-deer, sloth bear, wild dog, often met in very large packs, wild pig and mouse deer. Small game is not at all abundant.

Among snakes of special interest may be mentioned the hamadryad (*Naia bungarus*) of which a specimen 11′ 9½″ long was killed at Attakatti,

the keeled viper (*Echis carinata*), the common Indian coral snake (*Hemibungarus nigrescens*), *Ancistrodon hypnale*, several pit vipers, including the Anamallay Viper (*Lachesis anamallensis*) and Russell's Viper (*Vipera russellii*), all of which are more or less poisonous. The cobra, of course, is also fairly common outside the evergreen portions. In the drier tracts the molurus python occurs. Crocodiles are found in the Amaravati river, but do not attain any great size. The Indian monitor is common in the damper parts and is prized by the hill-men as a delicate comestible.

Produce plantations. Coffee planting was first started in the Anaimalais about the middle of the 19th century. The then estates were limited to a few small areas on the northern slopes, reached by a tortuous and steep bridle path and a shorter but steeper footpath. About 1896 the far more suitable south-western slopes, forming the catchment areas of the Periyar and Sholaiar were thrown open to the planting industry. From that date very considerable areas of the magnificent evergreen forests have been cleared to make room for coffee, tea, rubber to a small extent, cardamoms and a little Cinchona. There is now a very thriving planting district lying about the point known as Valparai between elevations of 3,000 and 5,000 feet to which access is gained by a remarkable ghat road of many "hair-pin" turns that runs up from the plains to the north (*see* plate 1).

Botanical history.—The oldest records of botanical investigation that I have been able to trace are to be found in the reports of the visits made by Captain (later General) J. Michael in October 1851, Lieutenant (afterwards Colonel) W. Beddome and Dr. H. Cleghorn in 1857 and 1858. All three investigators were pioneer Forest Officers and their reports were framed rather from that standpoint than from that of botanical research. As might be expected, the floristic information is meagre and vague, especially in the case of Michael who was a soldier, a pioneer forester, and a mighty hunter but not a botanist.

No doubt Beddome and Cleghorn recorded botanical notes but I am not aware of any such records devoted solely to this tract. I have included in the general list appended a couple of species quoted by Cleghorn in his "Forests and Gardens of Southern India" which have not been mentioned by others as having been observed in these hills, nor have they been observed by me. Beddome's notes are to be found in his "Flora Sylvatica," "Ferns of Southern India" and "Ferns of British India."

Lawson must have visited the Anaimalais, but I have seen no record of his observations there. Dr. Robert Wight resided for several years in Coimbatore (about 38 miles north of the tract), but there is no evidence of

his having visited the range, which is not mentioned in his and Arnott's "Prodromus." Though his authority is quoted in the "Flora of British India" for the occurrence of several species in the Anaimalai Hills it is quite possible that the specimens concerned were collected for him by others; certainly Captain Cotton, R.E., must have provided him with some and probably Michael also.

Dr. C. A. Barber, C.I.E., as Government Botanist, paid one or two visits to our area and officers subordinate to him were also deputed for collecting work from time to time. Rai Bahadur K. Ranga Chariar, the present Lecturing Botanist at the Agricultural College at Coimbatore, has kindly furnished me with a list of the plants recorded during these expeditions and they are incorporated in my list.

My own acquaintance with the Anaimalais dates from 1911. I was in forest charge of the South Coimbatore Forest Division, which includes these hills, from December 1911 to September 1915 and I paid two or three subsequent visits to the western extremity. Every opportunity was taken during my official tours to collect botanical specimens and to take notes. The majority of the specimens obtained were sent to the herbarium of the Royal Botanic Garden, Calcutta.

Sources of information.—No previous attempt at a survey of the flora of the Anaimalai Hills appears to have been made. The present one is based mainly on my own notes and collections, but, for the sake of such completeness as is possible at present, I have scrutinised every published work that seemed likely to afford additional information and have obtained lists, as already stated, from the Agricultural College Herbarium. The sources from which information has been derived are acknowledged in the list for those species which I have not observed.

I am conscious that the list is still far from complete. This is due firstly to the shortcomings of my own observations, as official duties prevented as thorough an exploration of all parts at all seasons as I should have desired. Secondly there is no published botanical work (or unpublished that I am aware of) devoted solely to the Anaimalai Hills, and those I have been able to consult cover the whole of the Madras Presidency or even larger areas, if they refer to our area at all. In many cases our restricted area is not specifically quoted as one of the habitats though, no doubt, it is included in the general limits stated. I have thought it safer to include only such plants as are stated definitely to have been found in the Anaimalais. On the other hand, I have included a few on the authority of Beddome with some hesitation, since that author apparently included the Neliampatti Hills in the Anaimalais as testified by such sentences

as: "Anaimalais, head of ghat from Palghat to Neliampatti Coffee Estates." The two ranges are separated, however, by so little that it seems very unlikely that any species found in the Neliampattis should be absent from all parts of our area. The converse does not hold good as the former hills are entirely within the Malabar region and much nearer the West Coast of the Peninsula, and there is no intrusion of any semi-desert type of vegetation.

The following published works were consulted :—

1. Wight and Arnott . "Prodromus Florae Peninsulae Indiae Orientalis."
2. H. Cleghorn . . "Forests and Gardens of Southern India."
3. W. Beddome . . "Flora Sylvatica."
4. Do. . . "Ferns of Southern India."
5. Do. . . "Ferns of British India."
6. Sir J. D. Hooker . . "Flora of British India."
7. Do. . . "A Sketch of the Flora of British India."
8. Do. . . "Epitome of the British Indian Species of Impatiens (Records of the Botanical Survey of India, Vol. IV)."
9. J. S. Gamble . . "Flora of the Presidency of Madras (up to and including Leguminoseae)."
10. P. F. Fyson . . "Flora of the Nilgiri and Palni Hill Tops."

Nomenclature.—I have adopted the nomenclature given in T. Cooke's "Flora of the Presidency of Bombay," Gamble's "Flora of the Presidency of Madras" (up to Aquifoliaceae only) and Fyson's "Flora of the Nilgiri and Palni Hill Tops" where these differ from the Flora of British India, but the latter, in such cases, has been quoted within brackets.

The second fascicle of Gamble's work quoted above appeared after the appended list had been completed. It would have entailed very considerable scriptory work to have incorporated the additional species (30) and the nomenclature, and I have thought it best to furnish these in a separate list (Appendices A and B). The additional species and genera have been included, however, in the synoptical table and notes.

Vernacular names.—The use of vernacular names, except for very restricted areas is full of pitfalls. The difficulties and drawbacks have been

exceedingly well expressed by Wight and Arnott in the preface to their "Prodromus" and as I thoroughly agree with their conclusions, I have given, with a very few exceptions, only such vernacular names as I have myself obtained and tested in the Anaimalais. The exceptions are those names to be found in Beddome's "Flora Sylvatica" when they refer beyond doubt to our area.

Character of the Flora.—The flora of the Anaimalais partakes of both the Malabar and the Dekkan regions, as described by Sir J. D. Hooker in his "Sketch of the Flora of British India" in the Imperial Gazetteer.

The first is represented in the evergreen forests and their vicinity in the zones of heavy rainfall.

The Coromandel sub-region of the Dekkan region is found in the inextensive, low-lying tract in the eastern extremity; and the Mysore sub-region on the northern, fairly dry slopes between 1,000 and 1,500 feet, especially in the eastern half.

The vegetation falls into five fairly district types, with sub-types in two of them. These types and sub-types are apt to intrude into one another and to merge on their common confines, so that it is rarely possible to fix hard and fast limits.

Working from the plains upwards the types are as follows :—

1. The dry, semi-desert type, which occupies the low eastern region in the Amaravati valley and extends more or less along the foot of the hills between elevations of 900 and 1,500 feet. The rainfall averages from 18 to 21 inches (see Plate I).

It is characterised by such plants as :—

Cocculus pendulus Diels, *Polycarpaea corymbosa* Lam., *Portulaca Wightiana* Wall. (among rocks), *Pavonia procumbens* Boiss., *Commiphora Berryi* Engl., *Pyrenacanthus volubilis* Hook. f., *Vitis quadrangularis* Wall., *Rothia trifoliata* Pers., *Crotalaria medicaginea* Lam., *Indigofera marginulata* Grah., *Pterolobium indicum* A. Rich., *Acacia Latronum* Wild., *Acacia planifrons* W. & A., *Dichrostachys cinerea* W. & A., *Vahlia viscosa* Roxb., an abundance of *Opuntia Dillenii* How., *Gisekia pharnaceoides* Linn., *Coffea Wightiana* W. & A., *Sphæranthus amaranthoides* Burm., *Mimusops hexandra* Roxb., *Salvadora persica* Linn., *Heliotropium zeylanicum* Lam., *Solanum trilobatum* Linn., *Barleria noctiflora* Linn. f., *Geniosporum prostratum* Benth., *Euphorbia dracunculoides* Lam., *Euphorbia antiquorum* Linn., *Hemicyclia sepiaria* W. & A., *Jatropha Wightiana* Muell.-Arg., *Perotis latifolia* Ait., and *Oropetium Thomæum* Trin.

Along streams the following species belonging to other types and elevations intrude :

Hopea parviflora Bedd., *Acacia Suma* Kurz., *Calamus Rotang* Linn.

2. The dry, deciduous hill type, on the outer slopes in the drier regions, from 1,500′ to 3,500′. The rainfall varies from 20 to 60 inches per annum.

The slopes are usually very rocky and precipitous (see Plate I). Along the ravines and in other favourable places species of the next type are apt to intrude. The characteristic species of this type are :—

Cochlospermum Gossypium DC., *Shorea Talura* Roxb., *Sterculia urens* Roxb., *Eriolaena quinquelocularis* Wight., *Buettneria herbacea* Roxb., *Hiptage Madablota* Gaertn., *Murraya exotica* Linn., *Elaeodendron glaucum* Pers., *Sapindus bifoliatus* Hiern., *Buchanania Lanzan* Spreng., *Indigofera Wightii* Grah., *Indigofera pulchella* Roxb., *Butea frondosa* Roxb., *Dalbergia sissoides* Grah., *Albizzia odoratissima* Benth., *Kalanchoe floribunda* W. & A., *Rubia cordifolia* Linn., *Diospyros montana* Roxb., *Olea dioica* Roxb., *Didymocarpus Rottleriana* Wall., *Vitex altissima* Linn. f., *Lasiosiphon eriocephalus* Dcne. (above 3,000′), *Givotia rottleriformis* Griff., *Ficus Arnottiana* Miq., *Manisurus granularis* Linn. and *Andropogon Nardus* Linn.

This type is often found occupying areas that formerly were covered with evergreen vegetation and that have been degraded by shifting cultivation and annual firing.

3. The moist, deciduous forest type. This type is almost confined to the western extremity, between elevations of 1,500 and 2,500 feet, with a rainfall of from 50 to 100 inches (see Plate II). It borders on and mixes with the lower evergreen type (see Plate III).

This is the most important type from the point of view of the forester, since it is here that timber trees, such as *Tectona grandis* Linn., *Pterocarpus Marsupium* Roxb., *Dalbergia latifolia* Roxb., *Terminalia tomentosa* Bedd., *Lagerstroemia lanceolata* Wall., attain their largest dimensions. In spite of very wasteful and extensive extractions in the past, enormous examples of these and other species are still to be met with. Apart from this the most prominent feature of this region is the prevalence of *Bambusa arundinacea* Willd., which has invaded large areas and threatens the extinction of all other vegetation. Here too, in clearings and along communications, *Lantana Camara* Linn. has appeared and spread so extensively that special means of repression have had to be adopted.

Besides those mentioned above the following distinguish this type :—

Naravelia zeylanica DC., *Dillenia pentagyna* Roxb., *Hibiscus Lampas* Cav., *Sterculia villosa* Roxb., *Impatiens chinensis* Linn., *Naregamia alata* W. & A., *Melia composita* Willd., *Vitis discolor* Dalz., *Schleichera trijuga* Willd., *Semecarpus Anacardium* Linn., *Crotolaria dubia* Grah., *Desmodium*

Cephalotes Wall., *Desmodium pulchellum* Benth. (the last two forming thickets under the large trees), *Desmodium triquetrum* DC., *Desmodium gyrans* DC., *Spatholobus Roxburghii* Benth., *Caesalpinia mimosoides* Lam., *Bauhinia malabarica* Roxb., *Xylia dolabriformis* Benth., (*X. xylocarpa ?*), *Terminalia paniculata* Roth. *Careya arborea* Roxb. *Mussænda frondosa* Linn., *Embelia Tsjeriam-Cottam* A. DC., *Scoparia dulcis* Lam., *Aeginetia indica* Roxb., *Stereospermum chelonoides* DC., *Antidesma Ghesambilla* Gaertn., *Baliospermum axillare* Bl., *Cycas circinalis* Linn., *Habenaria plantaginea* Lindl., a number of *Scitaminaceae* including *Costus speciosus* Sm., and *Clinogyne virgata* Benth. (the latter forming dense thickets near water), *Dioscorea oppositifolia* Linn., *Chloris incompleta* Roth., and *Drynaria quercifolia* Linn. (on tree trunks and on rocks).

In the swamps one meets with *Sesbania aculeata* Pers., *Randia uliginosa* DC., *Sphenoclea zeylanica* Gaertn., *Hydrolea zeylanica* Vahl. and *Ceratopteris thalictroides* Linn., and along streams *Rhabdia lycioides* Mart. grows.

4. The evergreen type, with a rainfall of 100 to 150 inches per annum, is divisible into three fairly distinct sub-types, which correspond roughly with the elevation.

(*a*) The lower evergreen sub-type ranging from 1,500 to 3,000 feet (see Plate III). Some of its characteristic species are :—

Hydnocarpus Wightiana Bl., *Xanthophyllum flavescens* Roxb., *Ancistrocladus Heyneanus* Wall., *Achronychia laurifolia* Bl., *Harpullia imbricata* Thw., *Geophila reniformis* D. Don., *Bragantia Wallichii* Br., *Croton caudatus* Giesel., *Dimorphocalyx Lawianus* Hook. f., *Excœcaria robusta* Hook. f., *Panicum pilipes* Nees., and the reed-like bamboo *Ochlandra travancorica* Benth., which last densely covers considerable areas along streams. It is the leaves of this bamboo that are generally used by the jungle men for thatching.

(*b*) The median evergreen sub-type, lying between 3,000 and 5,000 feet.

This is the best class of land for the purposes of the planting industry and several thousand acres of magnificent evergreen forest have been cleared to make room for coffee and tea plantations and partially cleared for the cultivation of cardamoms.

Rubber trees of several kinds have been tried but without much commercial success. Pepper vines are trained to a certain extent on the shade trees in some of the coffee plantations and there is also some Cinchona grown.

Gigantic evergreen trees grow in these forests. Some of them, such as *Mesua ferrea* Linn., *Calophyllum tomentosum* Wight., *Palaquium ellipticum* Engl., and *Diospyros Ebenum* Koen. are of value to the timber trade.

This sub-type is probably the most varied and botanically interesting of the area. The vegetation is exceedingly densely grown, so that, except where some fallen giant stem has made a temporary opening, sunlight never reaches the soil.

There are four well defined stories: Lofty trees, with their crowns out in the sunlight, overtop all, some 140 or 150 feet above the ground. Besides those already mentioned one may quote: *Cullenia excelsa* Wight., *Elaeocarpus tuberculatus* Roxb., *Canarium strictum* Roxb., *Kurrimia bipartita* Laws., and *Nephelium Longana* Camb.

Beneath these, smaller trees adapt themselves to the more shady conditions and form a second story. Of these the most characteristic are:—

Unona pannosa Dalz., *Goniothalamus Wightii* Hook. f. & T., several Garcinias, *Holigarna Beddomei* Hook. f., *Pithecolobium bigemminum* Benth., *Eugenia Munroii* Wight., *Isonandra lanceolata* Wight., *Premna coriacea* C. B. Clarke, *Agrostistachys longifolia* Benth., and *Macaranga tomentosa* Wight. The last named together with *Clerodendron infortunatum* Linn. (which here reaches to a height of 30 feet) are the first trees to appear as secondary growth on neglected clearings.

Innumerable woody shrubs from the next stage, such as:—*Paramignya armata* Oliv., *Turraea villosa* Burm., *Ixora nigricans* Br., *Psychotria Thwaitesii* Hook. f., *Psychotria anamallayana* Bedd., *Saprosma indicum* Dalz., *Ervatamia coronaria* Stapf., several species of *Strobilanthes*, which are often overgrown by *Cassytha filiformis* Linn., and *Chloranthus brachystachyus* Bl.

Twining among these and often binding them to form an almost impenetrable mass, are such twiners as *Lavunga eleutherandra* Dalz. *Erythropalum populifolium* Mast. and *Rhaphidophora pertusa* Schott.

Occasionally there are canebrakes of *Calamus pseudotenuis* Becc.

Finally, below all, there is a carpet of herbs and cryptogams, including:—

Several species of *Impatiens*, *Sonerila Brunonis* W. & A., *Acranthera anamallica* Bedd., *Neurocalyx Wightii* Arn., *Ophiorrhiza hirsutella* Wight., *Isanthera permollis* Nees., *Pilea stipulosa* Miq., *Gymnopteris contaminans* Wall., and *Selaginella plumosa* Baker. Old rotted stumps afford lodging for mosses and smaller ferns and masses of *Nephrolepis cordifolia* Linn. The soil under this covering consists mainly of the decomposed and decomposing debris of all this vegetation and affords the shelter beloved of leeches. These animals are a perfect pest, if not a danger, during the wet season. As an Indian subordinate officer once reported of forests of this type: "The attacks of elephants and leeches are too much."

Epiphytic orchids and ferns cluster on the trunks of the trees, mosses clothe them and lichens disguise them; an occasional *Fagraea ovata* Wall. or *Connarus Wightii* Hook. f. is festooned among the branches and the flowers of *Aeschyananthus Perottetii* A. DC., here and there, lend a touch of brighter colour.

Where the soil is poor or shallow the trees of the tallest story are either absent or reduced in size and only three stories are present. Here the tree Composite, *Vernonia monosis* Benth. appears.

Further features of interest in this zone are the tree ferns (*Alsophila*), the *Podostemoniaceae* on semi-submerged rocks in the streams, the justly dreaded "Elephant-nettle," *Laportea crenulata* Gaud., and the only South Indian Conifer, *Podocarpus latifolia* Wall., though this latter is rare in these hills.

(*c*) The upper evergreen sub-type, above 5,000 feet.

This type occurs both in continuous expanses of forest (see Plate IV) and in isolated patches punctuating the open grass lands of the next type (see Plate V). These latter patches usually surround and line the depressions and ravines that form the sources of streams.

The margins of the forests of this type are generally extraordinarily abrupt where they border on grass land, giving the appearance of a wall across the open downs.

In these forests we find:—*Michelia nilagirica* Zenk., *Mahonia Leschenaultii* Tak., *Eurya japonica* Thunb., *Elæocarpus ferrugineus* Wight., *Apodytes Benthamiana* Wight., *Euonymus indicus* Heyne., 3 species of *Ilex*, species of *Microtropis*, *Turpinia pomifera* DC., *Pithecolobium subcoriaceum* Thw., 3 species of *Rubus* (mainly along the outer edges and in glades), *Eugenia Arnottiana* Wight., *Eugenia calophyllifolia* Wight., *Rhodomyrtus tomentosa* Wight., *Medinella Beddomei* C. B. Clarke (? *M. fuchsioides* Gard.), *Polyscias acuminata* Seem., *Senecio corymbosus* Wall., *Gaultheria fragrantissima* Wall. (along the margins), *Rhododendron arboreum* Sm., *Ardisia rhomboidea* Wight., *Symplocos anamallayana* Bedd., *Cinnamomum Wightii* Meissn., *Pilea Wightii* Bedd., *Cirrhopetalum Gamblei* Hook. f., *Aerides radicosum* A. Rich., *Peliosanthes neilgherrensis* Wight., and *Arisaema tortuosum* Schott.

The curious little epiphyte *Impatiens Jerdoniae* Wight. is common at the higher elevations, as also the small parasite *Viscum japonicum* Thunb., especially on *Eurya japonica* Thunb. and *Rhododendron arboreum* Sm.

5. The grass-land type, running from 3,000 feet to the highest points. Here again a division according to elevation is required. The limit between the two sub-types is not at all well defined but can be fixed with rough approximation at 6,000 feet. The lower sub-type is often dotted

with single trees or groups of *Terminalia Chebula* Retz., *Zizyphus rugosa* Lam., and *Mallotus albus* Muell.-Arg., while the upper sub-type is invaded by patches of the upper evergreen sub-type.

The slopes are usually steep, except where small plateaus occur when the ground undulates more or less gently to the edge of rocky precipices or passes gradually to the steeper lower slopes.

(*a*) The lower grass-land sub-type, below 6,000 feet, is distinguished by 2 species of *Viola*, *Linum mysorense* Heyne, *Crotolaria Wightiana* Br., *Desmodium rufescens* DC., *Flemingia Grahamiana* DC., *Drosera Burmannii* Vahl., *Bupleurum mucronatum* Wall., *Centratherum molle* Benth., *Conyza stricta* DC., *Laggera alata* Schultz-Bip., *Lobelia nicotianaefolia* Heyne., *Campanula fulgens* Wall., *Swertia affinis* C. B. Clarke, *Æginetia pedunculata* Wall., *Osyris arborea* Wall., 3 species of *Burmannia*, *Ischaemum ciliare* Retz., *Andropogon Nardus* Linn., *Pteris aquilina* Linn., *Lycopodium cernuum* Linn., and *Selaginella rupestris* Spreng (on rocks).

(*b*) The upper grass-land sub-type, above 6,000 feet (see Plates IV and V), contains a number of species of sub-alpine affinity. Of these may be mentioned *Hypericum japonicum* Thunb., *Polygala sibirica* Linn., *Geranium nepalense* Sweet, *Impatiens oppositifolia* Linn., *Indigofera pedicellata* W. & A., *Fragaria indica* And., *Osbeckia Leschenaultiana* DC., *Peucedanum anamallayanum* Bedd., *Hedyotis articularis* Br., *Hedyotis buxifolia* Bedd., *Valeriana Hookeriana* W & A., *Dipsacus Leschenaultii* Coult., *Vernonia Bourneana* W. W. Smith, *Anaphalis Meeboldii* W. W. Smith, *Lysimachia Leschenaultii* Duby, *Jasminum bignoniaceum* Wall., *Pedicularis zeylanica* Benth., *Strobilanthes Kunthianus* T. And., *Micromeria biflora* Benth., *Calamintha umbrosa* Benth., *Leucas lanceaefolia* Desf., *Polygonum alatum* Ham., *Rumex nepalensis* Spreng., *Spiranthes australis* Lindl., *Lilium neilgherrense* Wight., *Isachne Gardneri* Benth., and *Arundinella Wightiana* Nees.

In swampy places occur :—*Ranunculus reniformis* Wall., *Drosera peltata* Sm., *Serpicula indica* Thw., *Gentiana quadrifaria* Bl., several species of *Utricularia*, *Satyrium nepalense* Don., several species of *Eriocaulon*, *Carex phacota* Spreng., and *Athyrium Filix-foemina* Bernh.

Along streams we find *Anemone rivularis* Ham., *Impatiens Tangachee* Bedd., the beautiful *Sonerila grandiflora* Wall., and *Exacum atro-purpureum* Bedd. VAR. *anamallayanum* Bedd., *Arundinaria Wightiana* Nees. and *Osmunda regalis* Linn.

General observations. The flora of the Anaimalais, therefore, is varied, perhaps extraordinarily so for so small an area. Those to whom

the neighbouring hills and plains are familiar will remark that it does not differ very greatly from that of its surroundings. The most noteworthy features are:

The absence from the semi-desert type of the spinous *Dalbergias* and of *Cassia marginata* Roxb., all of which are common in the adjoining Madura District.

In the higher grass lands *Cotoneaster buxifolia* Wall., *Rosa Leschenaultiana* W. & A. and *Parochetus communis* Ham., all common in similar localities in the Nilgiri and Palni Hills are entirely wanting as far as my observations go. On the other hand, *Anaphalis Meeboldii* W. W. Smith is exceedingly common on the Tanakumalai ridge (about 8,000 feet), and lower down we get *Impatiens herbicola* Hook. f., both of which species were discovered by Meebold in Travancore in 1911 and, as far as I am aware, have not been reported from any other than these two localities.

In the median evergreen sub-type or on grass land close to its edges *Podocarpus latifolia* Wall. is found. Elsewhere it is known only from the Travancore and Tinnevelly Hills far to the south.

Another uncommon plant is *Utleria salicifolia* Bedd. Of recent years it has been found outside the Anaimalais in another range of Coimbatore hills. It is a gregarious shrub, not a tree as stated in the Flora of British India, not exceeding 6 feet in height and a ground level diameter of 1½ inches. It is found in rocky places near evergreen forest between elevations of 4,000 and 5,000 feet.

Pyrenacantha volubilis Hook., a slender climber apparently not reported from any part of India up to the time Vol. I of the Flora of British India was published in 1875 and since then recorded only from the Palni and Tinnevelli Hills (*vide* J. S. Gamble's "Flora of the Presidency of Madras"), occurs in the semi-desert type of our area. It may be of interest to note that I have also found this species in the northern part of the Nellore District, at least 350 miles north of the Anaimalais, and also on the coast line of that District (Sriharikota) within 5 miles of the Bay of Bengal.

A number of lichens are to be found on the trunks and branches of trees and on soil in the wetter parts and adhering to rocks at the higher elevations. Liverworts are also common in sheltered and damp places. As the collections of these organisms have not been identified so far, none of them find place in this review.

Subsequent to the compilation of the General list below and after the preceding notes had been written, the second part of Mr. J. S. Gamble's "Flora of the Presidency of Madras" was published. From this part I have extracted 28 species not included in the list, and two varieties are

therein promoted to specific rank. Further there are changes in nomenclature. At about the same time the Revd. Father E. Blatter and Dr. Hallberg published the first part of "A Review of the Indian Species of Rotala" in Vol. XXV (pp. 709 *et seq.*) of the Journal of the Bombay Natural History Society. In this review there are two or three alterations in nomenclature and one new species from the Anaimalais, which turns out to be identical with 2 unnamed specimens in my collections.

I proposed at first to incorporate these additions and changes in my list. To have done so, however, would have entailed much scriptory labour and the expenditure of more time than I could afford; consequently, I have decided to include them in appendices. I was all the more reconciled to this compromise by the reflection that further additions and alterations may be expected with the issue of the subsequent parts of Mr. Gamble's Flora and possibly also in the concluding part of the revision of the species of Rotala. These additions are taken into account, however, in the synoptical analysis.

This probability of further additions makes any synopsis of the numbers of families, genera and species of doubtful value. Nevertheless, for the sake of completeness, I append some notes and a synoptical table for what they are worth at this stage.

Introduced species that have run wild. The following is a not quite exhaustive list of species that have been introduced and have run wild. The number prefixed to each denotes its position in the general list:

624. *Opuntia Dillenii* Haw. Very abundant and gregarious in the low dry parts.

728. *Erichtethes valerianaefolia* DC. Common in some of the plantations.

767. *Flaveria Contrayerba* Pers. In the drier parts, not very abundant.

778. *Tridax procumbens* Linn. Very abundant almost everywhere in open places up to 3,000′.

779. *Cosmos caudatus* H. B. K. In some plantations, not common.

970. *Ipomoea coccinea* Linn. Near Mount Stuart.

1002. *Lycopersicum esculentum* Mill. Along the ghat road leading to the plantations.

1004. *Physalis peruviana* Linn. Not particularly abundant.

1006. *Nicandra physalioides* Gaertn. About hill villages.

1026. *Scoparia dulcis* Linn. In the moist western deciduous forest only.

1059. *Martynia diandra* Glox. In open places, mostly near the foot of the hills.
1129. *Browellia demissa* Linn. A rare escape.
1130. *Lantana Camara* Linn. In the moist western region.
1358. *Jatropha Curcas* Linn. Near villages.
1425. *Pilea muscosa* Lindl. In the plantations.

Synopsis. From all sources to which I have had access I have drawn out the list given further on which contains 1,828 species, excluding the mosses and fungi of which the list is very incomplete. Of these about 1,500 have been derived from my own notes and the rest from one or more of the authorities quoted.

There are only 3 Gymnosperms *viz.*—

Gnetum scandens Roxb., *Podocarpus latifolia* Wall., and *Cycas circinalis* Linn.

Only one family, the Leguminosae, is represented by over 100 species (177) the next being the Euphorbiaceæ with 91.

Two genera are represented by more than 20 species; *Crotalaria* with 32 and *Impatiens* with 26.

Synoptical table.

Division.	Number of Families.	Number of Genera.	Number of Species.
I Phanerogamia	140	765	1,690
A. Dicotyledones . . .	116	640	1,473
1. Polypetalæ . . .	63	286	679
(a) Thalamifloræ . .	22	81	178
(b) Discifloræ . . .	18	94	180
(c) Calycifloræ . . .	23	111	321
2. Gamopetalæ . . .	33	253	546
3. Monochlamydæ . . .	20	101	248
B. Gymnospermæ . . .	3	3	3
C. Monocotyledones . . .	21	122	214
II Cryptogamia	9	60	138
Total .	149	825	1,828

Explanation of abbreviations, etc. In the following list the numbers entered immediately after the specific names are those of my collections sent to the Herbarium of the Royal Botanic Garden, Sibpur, and identified there.

As already stated, when the nomenclature adopted differs from that employed in the Flora of British India the latter is added within brackets.

For those species not seen in the area by myself I have noted invariably the authority for inclusion immediately after the specific name. For this purpose the following abbreviations have been used :

F. B. I. for Sir J. D. Hooker's "Flora of British India."

Cleg. for Dr. H. Cleghorn's "Forests and Gardens of Southern India."

F. S. for Col. Beddome's "Flora Sylvatica."

Ferns for his "Ferns of British India" and "Ferns of Southern India."

F. P. M. for Mr. J. S. Gamble's "Flora of the Presidency of Madras."

A. C. for Lists furnished by Rao Bahadur M. R. Ry. K. Ranga Chariar Avgl., Lecturing Botanist.

The dates of flowering, fruiting etc., are extracted from my own notes; the other observations are also from my note books, except when inverted commas show that they are quoted from the sources indicated.

In conclusion I desire to acknowledge the very kind assistance extended by Lt.-Col. A. T. Gage, I.M.S., and his assistants at the Calcutta Herbarium, Messrs. W. W. Smith, C. C. Calder, M. S. Ramaswami and P. Debburman, who compared my collections, checked and corrected my identifications and answered my tiresome questions with unfailing courtesy and promptitude.

I have also to thank Rao Bahadur M. R. Ry. K. Ranga Charia and his assistants at Coimbatore for the identification of some of the Graminaceæ; Mr. J. S. Gamble, C.I.E., F.R.S., for the identification of a few other specimens; Mr. W. Macrae, Government Mycologist, for naming most of the fungi and Miss E. Wakefield of Kew who named two of the latter.

Text for Plates.

Plate I—page 12.—The Anaimalai Ghat Road; section between 1,200′ and 1,500′. Passing through the dry semi-desert and the dry deciduous hill types.

Plate II—page 13.—The Tunakadavu falls near Mount Stuart. Moist, deciduous forest type 2,000′.

Plate III—page 13.—Karanir. Moist, deciduous forest type (left foreground) meeting lower evergreen sub-type (across the stream).

Plate IV—page 17.—From left to right: Thanakumalai (8,244′), Akkamalai (about 8,100′) and Tangachimalai (7,200′). The Torakadavu valley at the foot of the peaks. Upper evergreen and Upper grass-land sub-types.

Plate V—page 18.—Camp at Koramparai swamp 7,500′. Baggage elephants just outside wood on left. Upper grass-land sub-type with patch of upper ever-green sub-type; a swamp immediately below the wood, from which issues a perennial stream.

SYSTEMATIC LIST.

PHANEROGAMIA.

DICOTYLEDONEAE.

1. RANUNCULACEAE.

1. Clematis L.

1. **C. smilacifolia** Wall.
Flowers May. In evergreen forest, 4,000′.

2. **C. Munroana** Wight. F. P. M.

3. **C. Gouriana** Roxb. No. 3250.
Flowers December to January, 3,000′.

2. Naravelia DC.

4. **N. zeylanica** DC.
Flowers and fruits November to January, 2,500′—3,500′.

3. Anemone L.

5. **A. rivularis** Ham. No. 3345.
Flowers and fruits April—May, 6,000′—7,500′.

4. Thalictrum L.

6. **T. javanicum** Bl.
Flowers May. Over 6,000′.

5. Ranunculus L.

7. **R. reniformis** Wall.
Flowers April—May, 6,000′—7,500′.

8. **R. Wallichianus** W. & A.
Flowers April, 6,000′—7,000′.

II. DILLENIACEAE.

6. Dillenia L.

9. **D. retusa** Thunb. F. P. M.

10. **D. pentagyna** Roxb. No. 3367. Tamil *Nai-tek, Ponnai.* Flowers March—April; leafless when flowering; fruits April—May. In the deciduous forests of the western half. 1,600′—3,300′.

11. **D. bracteata** Wight. (*Wormia bracteata* Hook f. & T.) F. S.

III. MAGNOLIACEAE.

7. Michelia L.

12. **M. Champaca** L. A. C.
In evergreen forest, 4,000′.

13. **M. nilagirica** Zenk.
Flowers May. In evergreen forest, 6 000′—7,000′.

IV. ANONACEAE.

8. Sageræa Dalz.

14. **S. Dalzelii** Bedd. F. S.

9. Uvaria L.

15. **U. zeylanica** L. F. S.

16. **U. Narum** Wall. No. 3742.
Flowers December—May. Only seen at Lower Punachi at 2,800′.

10. Cyathocalyx Champ.

17. C. zeylanicus Champ. F. S.
3,000′.

11. Unona L.

18. U. pannosa Dalz. No. 3593.
Flowers May. In dense evergreen forest, 2,500′—4,500′.

19. U. viridiflora Bedd. F. P. M. and A. C.
In evergreen forest, 3,000′.

12. Polyalthia Bl.

20. P. fragrans Bedd. F. S.
"In moist forests, scarce; 3,000′."

21. P. cerasoides Hook. f. & T. Tamil *Nullilai.*
Flowers May to July; fruits August to September. Throughout the lower slopes, 1,000—2,500′.

22. P. coffeoides Benth. & Hook. f. Cleg.

13. Goniothalamus Bl.

23. G. cardiopetalus Hook. f. & T. F. P. M. and A. C.
In evergreen forest at about 4,000′.

24, G. Wightii Hook f. & T. No. 3592. Irula. *Korangupilla.*
Flowers May. In dense evergreen forest, 4,000′.

14. Mitrephora Bl.

25. M. Heyneana Thw. No. 3439. Tamil *Kugamatti.*
Flowers and Fruits May. In the dry eastern belt, 1,500′—2,000′.

15. Miliusa Lesch.

26. M. eriocarpa Dunn. (*M. indica* Hook. f. & T. VAR. *tomentosa*) No. 3606.
Flowers May, 4,500′.

27. M. montana Gardn. (*M. indica* Hook. f. & T. VAR. *montana*) F. P. M.

28. M. nilagirica Bedd. F. P. M.

16. Saccopetalum Benn.

29. S. tomentosum Hook. f. & T. Tamil *Karimthumbai.*
Flowers and new leaves in March. 1,200′—3,000′.

17. Alphonsea Hook. f. & T.

30. A. madraspatana Bedd No. 3435. Pulaiya *Thutlamaram.*
Flowers May. In the dry eastern section; 1,500′.

31. A. sclerocarpa Thw. Tamil *Kothiviran.*
Fruits November. In the dry eastern section; 1,200′.

32. A. zeylanica Hook. f. & T. A. C.
4,000′.

18. Orophea Bl.

33. O. erythrocarpa Bedd. F. S.
2,000.

34. O. Thomsoni Bedd. F. P. M.

V. MENISPERMACEÆ.

19. Tinospora Miers.

35. T. cordifolia Miers. No. 3642.
Flowers February to September. From the plains to 2,000′.

20. Diploclisia Miers.

36. D. glaucescens Diels (*Cocculus macrocarpus* W. & A.) No. 3360. Kadir *Vallipilachi.*
Flowers March. In and near evergreen forest; 2,000′—3,000′.

21. Cocculus DC.

37. **C. laurifolius** DC. No. 3400.
Flowers April—May. 4,000′—5,000′. (F. S. 7,000′.)

38. **C. hirsutus** Diels (*C. villosus DC.*)
Flowers January—February. Along the foot of the hills.

39. **C. pendulus** Diels (*C. Leaeba DC.*) No. 3682. Tamil *Villumbi.*
Flowers March. At the lowest elevations in the dry eastern belt.

22. Stephania Lour.

40. **S. japonica** Miers. (*S. hernandifolia* Walp.) No. 3625.
Flowers May to July; fruits August. 1,700′—3,000′.

23. Cissampelos L.

41. **C. Pareira** L. Tamil *Urikakodi.*
Flowers July to September; fruits January. Common. 900′—2,500′.

24. Cyclea Arn.

42. **C. peltata** Diels. (*C. Burmannii* Hook. f. & T.) Nos. 3641, 3769.
Flowers September—October; fruits October. In the moist deciduous forests of the west; 1,800′—2,500′.

43. **C. Arnotti** Miers. (*C. peltata* Hook. f. & T.) F. P. M.

25. Pachygone Miers.

44. **P. ovata** Miers.

Flowers May—June. 1,000′—1,500′.

VI. BERBERIDACEÆ.

26. Mahonia Nutt.

45. M. Leschenaultii Tak. (*Berberis nepalensis* Spreng.)
Fruits March—April. In evergreen forest above 6,000′.

27. Berberis L.

46. B. tinctoria Lesch. (*B. aristata* DC. in part.)
Young fruits May. Seen only in the eastern half in grass lands over 6,000′.

VII. CRUCIFEREÆ.

28. Cardamine L.

47. C. hirsuta L.
Flowers and fruits January. In evergreen forest; 3,300′.

VIII. CAPPARIDACEÆ.

29. Cleome L.

48. C. monophylla L.
Flowers and fruits December to July. In the drier parts; 1,000′—2,500′.

49. C. aspera Koen.
Flowers and fruits June—July. Along the foot of the hills. The upper leaves are frequently trifoliate by suppression.

50. C. viscosa L.
Flowers and fruits December to July. On dry slopes; 1,000′—1,800′.

30. Gynandropsis DC.

51. G. pentaphylla DC.
Flowers May. In the dry eastern belt; 900′.

31. Maerua Forsk.

52. M. arenaria Hook. f. & T. No. 3685.
Flowers February; fruits in the hot weather. 900′—1,200′.

32. Cratæva L.

53. C. religiosa Forst.
Flowers April. 1,000′—2,000′. In favourable localities attains a considerable size; 50′ in height and 5′ in girth.

33. Cadaba Forsk.

54. C. Indica Lam.
Flowers February to September; fruits July to December. In dry localities; 900′—1,700′.

34. Capparis L.

55. C. Heyneana Wall.
Flowers May. 1,500′.

56. C. Moonii Wight. A. C.
In evergreen forest at about 3,000′.

57. C. grandis L.
Flowers May—June. 900′—1,400′.

58. C. sepiaria L.
Flowers May—June; fruits September. In the dry eastern region; 1,000′—1,700′.

59. C. zeylanica L. (*C. horrida* L.)
Flowers September. 1,000′—1,500′.

60. C. fusifera Dunn. A. C.
In evergreen forest at about 3,000′.

IX. VIOLACEÆ.

35. Viola L.

61. V. Patrinii DC.
Flowers March—April. In woods and open grass lands over 4,000′.

62. V. serpens Wall.
Flowers March—April; fruits April—May. In similar situations as the last.

36. Ionidium Vent.

63. I. suffruticosum Ging.
Flowers and fruits throughout the year. 900′—2,500′.

X. BIXACEÆ.

37. Cochlospermum Kunth.

64. C. Gossypium DC. Tamil *Kudraipuduku-mara, Kat-olaga*; Pulaiya *Kokamara*.
Flowers December to February (sometimes up to May); leafless while flowering; fruits March--June. Very conspicuous when in flower. Common on dry rocky slopes from 1,200′—4,000′.

38. Scolopia Schreb.

65. S. crenata DC. No. 3347.
Flowers April. In evergreen forest; 4,000′—6,500′.

39. Flacourtia Commers.

66. F. montana Grah.
In evergreen forest, 4,500′.

40. Hydnocarpus Gærtn.

67. H. Wightiana Bl. No. 3368. Kadir *Vetti-maram, Yetti-maram.*
Flowers April; fruits October. Common in evergreen forest, 2,000′—3,000′

68. H. alpina Wight. Nos. 3549, 3712. Pulaiya *Billu-mara.*
Flowers February to April; fruits March to May. In and near evergreen forest; 2,800′—4,500′.

XI. PITTOSPORACEÆ.

41. Pittosporum Banks.

69. P. tetraspermum W. & A.
Flowers April. In evergreen forest above 6,000′.

70. P. floribundum W. & A. No. 3,602.
Flowers April—May. At about 4,000′.

XII. POLYGALACEÆ.

42. Polygala L.

71. P. arillata Ham. Pulaiya *Sholaitathi-chedi.*
Flowers and fruits April. In evergreen forest; 4,000′—6,500′. Not as common in our area as in the Nilgiris, Billigiri Rangaus or the Paluis.

72. P. javana DC.
Flowers and fruits May. 4,400′.

73. P. chinensis L.
Flowers and fruits October. Fairly common from the plains up to 2,000′.
VAR. **triflora** L. No. 3480.
Flowers and fruits September. At Tekkadi 1,700′.

74. P. sibirica L.
Flowers and fruits April—May. Common on the grassy downs above 6,500′.

43. Xanthopyllum Roxb.

75. X. flavescens Roxb.
Flowers and fruits April—May. Fairly common in evergreen forests; 1,800′—3,000′.

XIII. CARYOPHYLLACEÆ.

44. Cerastium L.

76. C. indicum W. & A. F. P. M.

45. Stellaria L.

77. S. media L.
Flowers and fruits January. 4,000′.

46. Polycarpæa L.

78. P. corymbosa Lam.
Flowers May to December; fruits December to February. Along the foot of the hills and rising to 3,500′.

XIV. PORTULACACEÆ.

47. Portulaca L.

79. P. oleracea L.
Flowers and fruits October-December. 1,200′—3,000′.

80. P. Wightiana Wall. No. 3612.
Flowers June-December. In the drier parts at the lower elevations.

81. P. quadrifida L.
Flowers and fruits throughout the year. Very common and widespread. 900′—4,000′.

82. P. suffruticosa Wight.
Flowers and fruits February and June. On rocky slopes in the eastern region; 1,500′—2,000′.

48. Talinum Adans.

83. T. cuneifolium Willd. No. 3791.

Flowers and fruits February. Seen only in the Dalli Reserved Forest near the eastern extremity; 1,000′.

XV. HYPERICACEÆ.

49. Hypericum L.

84. H. mysorense Heyne.
Flowers and fruits March to May. Above 4,000′.

85. H. japonicum Thunb.
Flowers and fruits March to May. 6,300′ and above.

XVI. GUTTIFERÆ.

50. Garcinia L.

86. G. Cambogia Desrouss. Nos. 3431, 3350.
Flowers April—May; fruits September—October. In evergreen forests and along streams; 1,500′—6,300′.

87. G. Morella Desrouss.
Flowers April. In evergreen forest on the Travancore frontier; 6,500′.

88. G. Wightii T. Anders. A. C.
" In evergreen forest at about 4,000′."

89. G. tinctoria Dunn. (*G. Xanthochymus* Hook. f.) No. 3387.
Flowers March—April. In evergreen forest at about 4,000′.

90. G. spicata Hook. f. (*G. ovalifolia* Hook. f.) A. C.
In evergreen forest at about 4,000′.

51. Calophyllum L.

91. C. elatum Bedd. (*C. tomentosum* T. Anders.) Tamil *Pongu*, Irula *Sakla-maram*.
Flowers May. In evergreen forest at about 4,000′.

92. C. decipiens Wight. (*C. Wightianum* Wall.) Kadir *Analviri*, Pulaiya *Atukungiliam*.

Fruits May—June. Along river banks; 1,000′—4,000′.

93. C. trapezifolium Thw. A. C.
"In evergreen forest at about 4,000′."

52. Mesua L.

94. M. ferrea L. Tamil *Suruli*; Pulaiya *Atu-ponnai*.

Flowers April-May; fruits October to December. Common in the evergreen forests from 2,300′—4,500′. The leaves are very variable, as also the size of the flowers and seem to form distinct varieties, as described in Bourdillon's "Trees of Travancore." Of his three varieties I have found two on the Anamalais.

VAR. 1. Flowers 3″—4″ in diameter; leaves long lanceolate, 6″—8″ long.

VAR. 2. Flowers 1″ in diameter; leaves elliptic, sub-candate, 3″—4″ by $1\frac{1}{5}$″.

53. Pœciloneuron Bedd.

95. P. indicum Bedd. A. C.
"In evergreen forest at about 3,400′."

XVII. TERNSTRŒMIACEÆ.

54. Eurya Thunb.

96. E. japonica Thunb.

Fruits April—May. Along the edges of evergreen woods and of streams in open grass lands above 7,000′.

55. Gordonia Ellis.

97. G. obtusa Wall. No. 3605.

Flowers May. In open forest in the vicinity of evergreen forest; from 3,300′—4,300′. Often one of the stamens does not develop and another appears as a linear-oblanceolate petal, which is either emarginate or rounded at the apex.

56. Camellia L.

98. C. theifera Griff.
In the plantations from 2,000′—4,500′.

XVIII. DIPTEROCARPACEÆ.

57. Shorea Roxb.

99. S. Talura Roxb. Nos. 3389, 3653, 3698. Muduva *Burala-maram;* Pulaiya *Kari-maram.*

Flowers February; fruits May—June. Rather local in distribution; a few scattered trees at the foot of Mount Stuart at about 2,000′ and gregarious colonies at Attakatti, 3,100′, in the Torakadavu Valley, 3,000′, below Pundi 3,000′ and in the Mangai-ar Valley, 2,500′.

58. Hopea Roxb.

100. H. parviflora Bedd. No. 3753.
Fruits April—June. In the evergreen forests of the western end, 2,000′—3,000′, and along the Amaravati river in the east at 1,000′.

59. Vateria L.

101. V. indica L. A. C.
"In evergreen forest at about 3,300′."

XIX. ANCISTROCLADACEÆ.

60. Ancistrocladus Wall.

102. A. Heyneanus Wall. No. 3701.
Flowers February—March. In evergreen forest at Karianshola, 2,400′.

XX. MALVACEÆ.

61. Sida L.

103. S. veronicæfolia L. (*S. humilis* Willd.)
Flowers and fruits September. At the foot of the hills, 1,200′—1,500′.

104. S. glutinosa Cav. (*S. mysorensis* W. & A.)
Flowers October. 2,500′.

105. S. acuta Burm. (*S. carpinifolia* L.)
Flowers December. At the foot of the hills.

106. S. rhomboidea Roxb. (*S. rhombifolia* L. VAR. *rhomboidea* Mast.)
Flowers and fruits October—December. 2,000′—3,000′.

107. S. cordifolia L.
Flowers and fruits December. At the foot of the hills.

62. Abutilon Gærtn.

108. A. polyandrum Schl. No. 3,514.
Flowers and fruits December. At about 2,500′.

109. A. indicum G. Don.
Flowers and fruits June. In the drier parts; 1,200′—2,000′.

110. A. hirtum G. Don. (*A. graveolens* W. & A.)
Flowers and fruits September—December, 1,200′.

111. A. crispum G. Don.
Flowers and fruits June. In the drier parts; 1,000′.

112. A. neilgherrense Munro.
Flowers May. 4,900′.

63. Urena L.

113. U. lobata L. No. 3853.
Flowers and fruits November—January. 1,000′—3,000′.

114. U. sinuata L. No. 3856.
Flowers and fruits November—January. 1,000′—3,000′.

64. Pavonia Cav.

115. **P. procumbens** Boiss. (*P. glechomifolia* Garcke.)
Flowers and fruits June—December. Along the foot of the hills; 1,000′—1,500′. The bracteoles occasionally number 6 or 7.

116. **P. zeylanica** Cav.
Flowers and fruits, at all seasons. Along the foot of the hills and rising to 2,500′.

117. **P. odorata** Willd.
Flowers and fruits at all seasons. In the same situations as the last.

65. Hibiscus Medik.

118. **H. surattensis** L. No. 3516.
Flowers October—December. In the western forests; 1,800′.

119. **H. furcatus** Roxb.
Flowers and fruits November—January. 2,000′—3,000′.

120. **H. micranthus** L.
Flowers and fruits throughout the year. Along the foot of the hills and rising to 2,500′.

121. **H. Solandra** L'Herit.
Flowers and fruits July—December. 2,000′—3,200′.

122. **H. canescens** Heyne.
Flowers and fruits throughout the year. 900′—3,000′.

123. **H. platanifolius** Sweet. (*H. collinus* Roxb.)
Flowers and fruits April—May. 2,500′.

124. **H. lunarifolius** Willd. No. 3523.
Flowers December. 1,200′.

125. **H. vitifolius** L.
Flowers and fruits May—December. 900′—1,500′.

126. **H. angulosus** Steud. (*H. angulosus* Mast VAR. *purpureus* Thw.). No. 3276.
Flowers January. 4,000′—5,000′.

127. H. Abelmoschus L.
Flowers July. At Ulandi; 2,500′.

128. H. Lampas Cav. (*Thespesia Lampas* Dalz. & Gibs.) Tamil *Katu-parathi*.
Flowers at all seasons except the very hottest. A very common under-shrub in deciduous forest, specially in the west, 1,700′—3,000′. Flowers occasionally white. I have never found the black glandular dots on the lower surface of the leaf referred to in Cooke's "Flora of the Presidency of Bombay."

129. H. cannabinus L.
Flowers December.

66. Bombax L.

130. B. malabaricum DC. Tamil *Olaga, Yeluvai*.
Flowers and fruits March-June. Scattered in the deciduous and occasionally in the evergreen forests, 1,800′—3,000′.

131. B. insigne Wall. No. 3643. Tamil *Kal-yeluvai*.
Flowers October—January, when leafless; fruits May. Seen by me only in the western extremity, 2,000′—2,200′.

67. Eriodendron DC.

132. E. pentandrum King. (*E. anfractuosum* DC.)
Occasionally planted in hill villages. Flowers and fruit December—January.

68. Cullenia Wight.

133. C. excelsa Wight. Tamil *Karanai*.
Fruits ripen and fall about January. A common tall tree in the dense evergreen forests between 3,000′ and 4,000′.

XXI. STERCULIACEÆ.

69. Sterculia L.

134. S. fœtida L. No. 3552. Tamil *Malamtenga*; Muduva *Kaludai-vitta*; Pulaiya *Kesala-maram*.

Flowers February, when leafless; new leaves appear from March—May. I have found ripe fruit in March and in June, but flowers only in February. This points to either two flowering seasons (one having escaped me) or to the ripening of the fruits being delayed sometimes for several months. Occurs throughout the hills in rocky places, 1,600′—3,500′.

135. S. urens Roxb. No. 3688. Tamil *Shen-thanaku.*
Flowers December—February; new leaves appearing about February; fruits May. In the same localities as the last.

136. S. villosa Roxb. No. 3854. Tamil *Vakkai, Anai-nar.*
Flowers January when leafless. Common in the western tract between 1,700′ and 2,500′. The fibre is used for making the ropes employed in the capture of elephants.

137. S. guttata Roxb. Pulaya *Kavalai-maram.*
Flowers September; new leaves and fruits in the hot weather. In the evergreen and adjacent deciduous forests; 2,000′—4,000′.

138. S. Balanghas L.
Fruits ripen in the hot weather. In evergreen forest; 3,000′—4,000′.

70. Heritiera Ait.

139. H. papilio Bedd. A. C.
"In evergreen forest at 4,000′."

71. Helicteres L.

140. H. Isora L.
Flowers September—January; fruits hot weather. A common shrub in deciduous forests from the plains up to about 3,000′. The flowers are of two colours bright red and a livid blue. The latter, however, would seem to be assumed when about to fade. Many flowers to all appearances quite fresh are blue, but in this case the petals are nearly always reflexed and somewhat flaccid. On the other hand, with the red flowers the petals in the early stages are stiff and spreading and many remain red even when quite dry.

72. Pterospermum Schreb.

141. **P. reticulatum** W. & A.
In the Varigali valley; 2,500′.

142. **P. Heyneanum** Wall.
In evergreen forest, 2,400′.

143. **P. rubiginosum** Heyne. F. S.
Up to 3,000′.

144. **P. obtusifolium** Wight. F. S.

73. Eriolæna DC.

145. **E. Hookeriana** W. & A.
Flowres May. 3,000′—4,500′.

146. **E. quinquelocularis** Wight. Nos. 3226, 3469. Tamil *Malamtuthi.*
Flowers during the rains; fruits cold weather.

74. Melhania Forsk.

147. **M. incana** Heyne.
Fruits June. In the dry, low lying tracts in the East.

75. Melochia L.

148. **M. corchorifolia** L.
Flowers and fruits September. 1,500′—3,000′.

76. Waltheria L.

149. **W. indica** L. Tamil *Shembudu.*
Flowers throughout the year. 900′—1,500′.

77. Buettneria L.

150. **B. herbacea** Roxb.
Flowers and fruits May—June. 2,000′—3,000′.

XXII. TILIACEÆ.

78. Grewia L.

151. **G. orientalis L.** (*G. columnaris* Sm.) Tamil *Sallai*.
Flowers May—July. 1,000′—3,000′.

152. **G. umbellata** Roxb. A. C.
In evergreen forest at about 3,000.

153. **G. betulæfolia** Juss. (*G. populifolia* Vahl.)
Flowers May—June and November—January; fruits September. 900′—1,200′.

154. **G. rotundifolia** Juss. (*G. orbiculata* Vahl.) Tamil *Kuppamani-thalai*.
Flowers and fruits June—July and December. 1,000′—3,000′.

155. **G. flavescens** Juss. (*G. pilosa* Lam.) Tamil *Udupai-kodi*.
Flowers July-August; fruits December to May. 900′—1,500′.

156. **G. tiliæfolia** Vahl. Tamil *Tadasal, Sadachi*.
Flowers March—June, new leaves April—May; fruits during the rains. Throughout the hills in deciduous forest. 1,000′—4,000′. Attaining a large size in the moist western region.

157. **G. villosa** Willd. A. C.
At about 3,000′.

158. **G. disperma** Rottl. (*G. laevigata* Vahl.) Tamil *Konapudukuchedi*.
Flowers September—October; fruits February. 1,200′—3,000′.

159. **G. obtusa** Wall. A. C.
At about 3,000′.

160. **G. aspera** Roxb. (*G. abutifolia* Juss.)
Flowers January to July. In the west; 1,200′—3,500′.

161. **G. rhamnifolia** Heyne. (*G. orientalis* W. & A.) A. C.
At about 3,000′.

whole shrub

162. G. hirsuta Vahl.

Flowers July-August; fruits December—January. A common undershrub in deciduous forest; 1,000′—3,500′.

79. Triumfetta L.

163. T. pilosa Roth.

Flowers October—January; fruits December—March. In the moister western half. 2,000′—3,000′.

164. T. rhomboidea Jacq.

Flowers and fruits December—January. A common undershrub. 1,000′—3,000′.

80. Corchorus L.

165. C. trilocularis L.

Flowers and fruits July. 900′—1,500′.

166. C. urticæfolius W. & A.

Flowers and fruits November—December. 900′—1,500′.

167. C. olitorius L.

Flowers December. 1,200′.

168. C. tridens L.

Flowers and fruits cold weather, 900′—1,200′.

169. C. acutangulus L.

Flowers and fruits September—December. 900′—1,200′.

81. Elæocarpus L.

170. E. serratus L. A. C.

In evergreen forest at 4,000′.

171. E. robustus Roxb. A. C.

In evergreen forest at about 4,000′.

172. E. oblongus Gaertn. A. C.

In evergreen forest. 3,500′—4,000′.

173. E. Munroii Mast. A. C.
At about 3,000′.

174. E. amoenus Thw. A. C.
In evergreen forest at about 4,000′.

175. E. tuberculatus Roxb. Kadir *Pahambu-maram.*
Flowers April. In evergreen forest; 3,000′—4,000′.

176. E. rugosus Roxb. A. C.
In evergreen forest at about 4,000′.

177. E. Monocera Cav. A. C.
In evergreen forest at about 3,000′.

178. E. ferrugineus Wight. No. 3560.
Flowers March; fruits April. In evergreen forest above 6,000′.

XXIII. LINACEÆ.

82. Linum L.

179. L. mysorense Heyne. No. 3217.
Flowers December—January. 3,500′—4,500′.

83. Erythroxylon L.

180. E. monogynum Roxb. Tamil *Sembulichan.*
Flowers May—June; fruits during the rains. In the drier eastern portion. 900′—2,000′.

XXIV. MALPIGHIACEÆ.

84. Hiptage Gaertn.

181. H. Madablota Gaertn.
Flowers September; fruits September to March. On rocky slopes and near streams, 1,500′—3,000′.

XXV. ZYGOPHYLLACEÆ.

85. Tribulus L.

182. T. terrestris L.

Flowers and fruits at all seasons. 900′—1,200′.

XXVI. GERANIACEÆ.

86. Geranium L.

183. G. nepalense Sweet.

Flowers May. Seen only at Periakulam swamp in the eastern half. 6,150′.

87. Oxalis L.

184. O. corniculata L.

Flowers and fruits throughout the year. A widespread plant found at all elevations. It is spreading in the planting district where it is likely to prove a troublesome weed.

88. Biophytum DC.

185. B. sensitivum DC.

Flowers and fruits seen in May, September, October and December. Probably it flowers and fruits at all seasons except the hottest 2 months. 1,800′—3,500′. Occasionally pure white and very pale yellow flowers are met with.

186. B. Reinwardtii Walp. A. C.

At about 3,000′.

89. Impatiens L.

187. I. modesta Wight. F. P. M.

At 6,000′.

188. I. crenata Bedd. F. P. M.

5,000′—8,000′.

189. I. chinensis L.

Flowers and fruits August to December. In the moister deciduous forests. 1,900′—2,800′.

190. I. Kleinii W. & A.

Flowers and fruits August—October. In the same localities as the last but not reaching quite so high.

191. I. ligulata Bedd. F. P. M.

1,500′—2,500′.

192. I. pusilla Heyne (*I. inconspicua* Benth.)

Flowers and fruits March to April, August and December. In open grass land, 3,000′—7,500′.

193. I. herbicola Hook. f. No. 3283.

Flowers and fruits January. In open grass land on Ibex Hill at about 4,500′. This elegant little species was named from specimens found in a similar situation and at a similar elevation in Travancore by Herr A. Meebold in 1910.

194. I. oppositifolia L. No. 3335.

Flowers and fruits April. On the margins of swamps and streams above 6,000′.

195. I. tomentosa Heyne.

Flowers and fruits April—May. Near water; 4,000′ and above.

196. I. latifolia L. No. 3351.

Flowers and fruits April—May. 4,000′—6,200′.

197. I. Leschenaultii Wall.

Flowers April. 6,500′ and above.

198. I. lucida Heyne. No. 3250.

Flowers and fruits seen in December, January, August and September. 1,200′—4,200′.

199. I. verticellata Wight. No. 3209.

Flowers and fruits December to May. 2,800′—4,200′.

200. I. Balsamina L.

Flowers and fruits throughout the year. Throughout the tract in suitable situations; 1,200′—2,500′.

The varieties *longifolia* and *racemifera* ("Epitome of the British Indian species of *Impatiens*," Records of the Botanical Survey of India, Vol. iv., No. 3) occur.

201. I. Jerdoniæ Wight.

On tree trunks and on rocks. 4,000′—8,000′.

202. I. parasitica Bedd. (*I. Jerdoniæ* Wight VAR. *parasitica* Hook. f.)

In the same localities as the last.

(These last two species are common in evergreen forest, they were not in flower or fruit when seen by me in March, April and May.)

203. I. campanulata Wight. No. 3472.

Followers August. 4,300′.

204. I. Goughii Wight. F. P. M.

205. I. viscosa Bedd. F. P. M.

206. I. omissa Hook. f. F. P. M.

207. I. parvifolia Bedd. F. P. M.

On the top of Akka-malai at 8,000′—8,200′ (Beddome).

208. I. cordata Wight. F. P. M.

At 3000′ to 5000′.

209. I. elegans Bedd. No. 3252.

Flowers and fruits found in January, April, May and August. 4,000′—6,500′.

210. I. maculata Wight. No. 3243.

Flowers and fruits January to April and in August. 3,600′—4,500′.

211. I. Tangachee Bedd. No. 3321.

Flowers and fruits April to May. In stream beds and along their banks above 4,000′. The specific name was given to this plant by Beddome after a conspicuous peak of these hills on the slopes of which he first found it. Two adjoining peaks are known as *Akka-malai* and *Tangachi-malai*, which are Tamil words signifying big and little sister, respectively; *malai* = mountain.

212. **I. Wightiana** Bedd. No. 3251.
Flowers and fruits January to May. In moist forests. 3,300′—4,500′.

XXVII. RUTACEÆ.

90. Evodia Forst.

213. **E. lunur-ankenda** Merr. (*E. Roxburghiana* Benth.)
In evergreen forest at about 6,000′.

91. Zanthoxylum L.

214. **Z. ovalifolium** Wight. Nos. 3393, 3597, 3815.
Flowers and fruits in May and December. 2,600′—4,100′.

215. **Z. tetraspermum** W. & A. No. 3674.
Flowers December. 2,600′.

216. **Z. Rhetsa** DC.
2,000′—2,500′.

92. Toddalia Juss.

217. **T. asiatica** Lam. (*T. aculeata* Pers.)
Flowers January; fruits hot weather. 1,000′—7,000′. Varying greatly in size and shape of leaves and fruit with the elevation and the moisture.

93. Vepris Comm.

218. **V. bilocularis** Engl. (*Toddalia bilocularis* W. & A.) F. P. M.
Up to 4,000′.

94. Achronychia Forst.

219. **A. laurifolia** Bl. No. 3632.
Flowers August. In evergreen forest at Karianshola; 2,400′.

220. **A. Barberi** Gamble. (*A. laurifolia* Bl. VAR. 4). F. P. M.
In evergreen forest at about 3,600′ (Barber).

95. Chloroxylon DC.

221. C. Swietenia DC. Tamil *Porasu.*
Flowers February to March; fruits hot weather. 1,000′—1,600′.

96. Glycosmis Corr.

222. G. cochinchinensis Pierre. (*G. pentaphylla* Corr.) No. 3440.

Flowers December to January and May; fruits October. A very variable common shrub, often forming dense thickets. I have seen leaves with 1, 2, 3, 4, 5, 6 or 7 leaflets. In fairly moist localities, 1,000′—1,600′.

97. Murraya L.

223. M. exotica L. No. 3397.
Flowers February to May; fruits April to June. In moist situations; 1,500′—3,000′.

224. M. Koenigii Spreng. Tamil *Karipaku.*
In the western half at about 1,200′.

98. Clausena Burm.

225. C. heptaphylla W. & A. F. P. M.
3,000′—5,000′.

226. C. indica Oliv. No. 3717.
Flowers April; fruits April to May. In and near evergreen forest; 3,500′—4,500′.

227. C. Willdenovii W. & A.
Flowers May; fruits during rains. 2,000′—4,000′.

99. Limonia L.

228. L. crenulata Roxb. (*L. acidissima* W. & A.) No. 3443. Tamil *Billuva-maram.*
Flowers May; fruits September—October. 900—1,600′.

229 L. alata W. & A. Tamil *Kat-elumichai.*
Flowers hot weather; fruits September. In dry localities; 900′—1,400′.

100. Luvunga Ham.

230. L. eleutherandra Dalz.
In evergreen forest at about 3,000′.

101. Paramignya Wight.

231. P. armata Oliv.
In evergreen forest at about 4,000′.

102. Atalantia Corr.

232. A. monophylla Corr. Tamil *Kurindai.*
Flowers January to May; fruits May to June. 900′—1,400′.

233. A. racemosa W. & A. Tamil *Kat-elumichai.*
Flowers February. At about 1,000′ in the eastern part.

234. A. ceylanica Oliv.
Flowers April. In evergreen forest; 3,000′—4,000′.

235. A. missionis Oliv. F. S.

103. Citrus L.

236. C. medica L. VAR **acida.** A. C.
In evergreen forest at about 4,000′.
(*Citrus aurantium* L. and *C. decumana* L. are cultivated.)

104. Feronia Gaertn.

237. F. Elephantum Corr. No. 3555. Tamil *Vullan-maram.*
Flowers March; fruits December. 900′—1,300′.

XXVIII. SIMARUBACEÆ.

105. Ailanthus Desf.

238. A. excelsa Roxb. No. 3678. Tamil *Pi-maram.*
Flowers January; fruits hot weather. On the plains at the foot of the hills, especially in the drier areas.

239. A. malabarica DC. Tamil *Mattipal-maram.*
In evergreen forest.

XXIX. OCHNACEÆ.

106. Ochna L.

240. O. Wightiana Wall.
On rocky slopes in the extreme eastern portion, 1,200′.

XXX. BURSERACEÆ.

107. Boswellia Roxb.

241. B. glabra Roxb. (*B. serrata* Roxb. VAR. *glabra*).
Seen only at Tinakadu in the eastern half; 2,200′.

108. Garuga Roxb.

242. G. pinnata Roxb. Tamil *Kara-vembu.*
1,200′—2,000′.

109. Commiphora Jacq.

243. C. Berryi Engl. (*Balsamodendron Berryi* Arn.) Tamil *Mul-kiluvai.*

Flowers October to December; fruits May to June. On the dry lower rocky slopes of the eastern part; 900′—1,200′. Much used as a live fence around fields.

244. C. caudata Engl. (*Protium caudatum* W. & A.) Tamil *Malam-kiluvai.*

Flowers hot weather while leafless; new leaves May to June; fruits during rains. Under heavy shade the tree often becomes more or less scandent. In dry localities in rocky places; 900′—1,500′.

245. **C. pubescens** Engl. (*Protium pubescens* W. & A.) Tamil *Malam-kiluvai.*

Fruits February. Confined to the dry eastern area in the same localities as the last species, but not so common.

110. Canarium L.

246. **C. strictum** Roxb. Tamil *Vellai-kungiliam.*

Flowers April to May. In evergreen forest; 3,000′—4,000′.

XXXI. MELIACEÆ.

111. Turræa L.

247. **T. villosa** Benn. No. 3377.

Flowers April. In evergreen forest at about 3,000′. Abundant. When fresh the petals are pure white, but soon fade to a creamy yellow.

112. Naregamia W. & A.

248. **N. alata** W. & A.

Flowers October. At Mount Stuart; 2,000′.

113. Munronia Wight.

249. **M. Wallichii** Wight. No. 3664.

Flowers hot weather; fruits December. In damp localities; 2,800′—4,000′.

114. Azadirachta A. Juss.

250. **A. indica** A. Juss. (*Melia Azadirachta* L.) Tamil *Veppam.*

Flowers April to June; fruits May to July. In the plains, not rising to any height up the slopes.

115. Melia L.

251. M. composita Willd. (*M. dubia* Hiern.) No. 3696. Tamil *Malaivembu.*

Flowers March to April; fruits August to December. In moist localities; 1,000′—2,000′. The pulp of the fruit has a milky juice.

116. Cipadessa Bl.

252. C. baccifera Miq. (*C. fruticosa* Bl.)

Flowers hot weather; fruits cold weather. Common as under growth in deciduous forest; 1,500′—4,000′.

117. Dysoxylum B.

253. D. binectariferum Hook. f. A. C.

In evergreen forest at about 4,000′.

254 D. malabaricum Bedd. F.S. and A.C. Kadir *Porapa.*

In evergreen forest; 3,000′—4,000′.

118. Aglaia Lour.

255. A. Roxburghiana Miq. No. 3432.

Flowers May; fruits September. In evergreen forest up to about 3,000′; descending the valleys to 1,500′.

256. A. Barberi Gamble. A. C.

In evergreen forest at about 3,000′.

257. A. minutiflora Bedd. A. C.

In evergreen forest; 4,000′.

119. Amoora Roxb.

258. A. Rohituka W. & A. No. 3484.

Flowers September. In evergreen forest at about 3,000′; descending valleys to about 1,500′.

259. A. canarana Hiern. F. P. M.

In evergreen forests up to 3,500′ (Beddome).

120. **Lansium** Rumph.

260. L. anamallayanum Bedd. F. S.
1,500′—3,000′.

121. **Walsura** Roxb.

261. W. piscida Roxb. No. 3444. Tamil *Kanji-maram.*
Flowers February to May. In the drier low hills in the East; 1,000′—2,000′.

122. **Heynea** Roxb.

262. H. trijuga Roxb. F. P. M. and A. C.
In evergreen forest; 3,000′—6,000′.

123. **Chukrassia** A. Juss.

263. C. tabularis A. Juss. (*Chikrassia tabularis* A. Juss.)
On the northern slopes; 1,300′—1,600′.

124. **Cedrela** L.

264. C. Toona Roxb.

Fruits May. 2,000′—4,000′.
VAR. **latifolia** C. DC. F. P. M.
At about 6,000′.

XXXII. DICHAPETALACEÆ (CHAILLETIACEÆ).

125. **Dichapetalum** Dup. Thouars.

265. D. gelonioides Engl. (*Chailletia gelonioides* Hook. f.) Nos. 3386, 3711).
Flowers April. In evergreen forest; 2,500′—4,500′.

XXXIII. OLACACEÆ.

126. Ximenia L.

266. X. americana L. Tamil *Madukarai*.
Flowers January; fruits September. Along the foot of the hills 900′—1,200′. Not very common.

127. Olax L.

267. O. Wightiana Wall. No. 3596.
Flowers May. In evergreen forest at about 4,000′.

128. Erythropalum Bl.

268. E. populifolium Mast.
Flowers January; fruits April. In evergreen forest; 3,000′—5,000′.

129. Anacolosa Bl.

269. A. densiflora Bedd. F. S.
Flowers November to December. In evergreen forest up to 2,500′.

130. Cansjera Juss.

270. C. Rheedii Gmel. Nos. 3483, 3662.
Flowers September to December; 1,200′—2,800′.

131. Opilia Roxb.

271. O. amentacea Roxb. No. 3428.
Flowers May; fruits July; 1,000′—3,000′.

132. Gomphandra Wall.

272. G. axillaris Wall. No. 3398.
Flowers April to May. In evergreen forest; 4,000′—6,500′.

273. G. coriacea Wight. (*G. polymorpha* Wight in part) F. P. M.
In sholas, 3,000′—6,000′.

274. G. polymorpha Wight. F. S. and A. C.
In evergreen forest; 3,000′—4,000′.

133. Apodytes E. Meyer.

275. A. Benthamiana Wight. No. 3563.
Flowers April to May. In evergreen forest; 6,000′—7,500′.

276. A. Beddomei Mast. A. C.
In evergreen forest up to 3,000′.

134. Mappia Jacq.

277. M. ovata Miers. F. P. M.

278. M. foetida Miers. No. 3464. Tamil *Shembakarali*.
Flowers August; fruits December to April. In deciduous and evergreen forest; 3,000′—7,000′.

135. Miquelia Meissn.

279. M. dentata Bedd. F. P. M. (Beddome).

136. Pyrenacantha Hook.

280. P. volubilis Hook.
Flowers November to January; fruits November. In the dry eastern part; 1,000′.

137. Sarcostigma W. & A.

281. S. Kleinii W. & A. A. C.
Evergreen forest at 3,300′.

XXXIV. ILICACEÆ.

138. Ilex L.

282. I. malabarica Bedd. Nos. 3328, 3559, 3795.
Flowers February to April; fruits April to May. In and near evergreen forest; 2,800′-7,500′.

283. I. Wightiana Wall. No. 3723.
Flowers and fruits April to May. In evergreen forest at about 6,500′.

284. I. denticulata Wall. F. S.
In evergreen forest from 6,000′—8,000′.

XXXV. CELASTRACEÆ.

139. Euonymus L.

285. E. indicus Heyne.
Flowers and fruits March to April. In evergreen forest, 4,000′—7,500′.

286. E. dichotomus Heyne. No. 3817.
Flowers May. In evergreen forest; 3,500′—5,000′.

287. E. crenulatus Wall. No. 3748. Muduva *Pulli-mara ;* Pulaiya *Vattilinji.*
Flowers June. In evergreen forest up to 6,500′ ; descending valleys down to 2,300′.

288. E. serratifolius Bedd. No. 3600.
Flowers May. In evergreen forest; 4,000′.

140. Glyptopetalum Thw.

289. G. zeylanicum Thw. F. S.
2,000.′

141. Microtropis Wall.

290. M. Wallichiana Wight. No. 3396.
Flowers April to May. In evergreen forest; above 6,000′.

291. M. latifolia Wight. No. 3569.
Flowers April. In evergreen forest; 4,000′ and above.

292. M. ramiflora Wight. Nos. 3561, 3730.
Flowers April. In evergreen forest ; above 6,000′.

142. Lophopetalum Wight.

293. L. Wightianum Arn. A. C.
In evergreen forest at 3,300′.

143. Kokoona Thw.

294. K. zeylanica Thw. F. B. I. (Beddome).

144. Celastrus L.

295. C. paniculata Willd. Tamil *Manja-kodi*, Malasa *Vennavaram-kodi.*

Flowers March and August ; fruits September. In deciduous forest and on the edges of evergreen forest ; 1,200′—4,000′.

145. Gymnosporia W. & A.

296. G. emarginata Roth. F. B. I.

297. G. montana Roxb. No. 3792. Tamil *Mulluran.*
Flowers December and February ; fruits May and June. Along the foot of the hills.

146. Kurrimia Wall.

298. K. bipartita Laws. (*K. paniculata* Wall.) No. 3272. Tamil *Sholaikodukapuli.*

Flowers December to January ; fruits April. Common in evergreen forest ; 4,000′—5,500′.

147. Hippocratea L.

299. H. obtusifolia Roxb.
Flowers March ; fruits May ; 1,000′—1,200′.

300. H. indica Willd. No. 3618.
Flowers June. In the driest tracts at about 1,000′.

148. **Elaeodendron** Jacq. f.

301. E. glaucum Pers. Tamil *Siluppan, Arali.*
Flowers September to October.

149. **Salacia** L.

302. S. prinoides DC. Nos. 3598, 3718.
Flowers April to May. In evergreen forest; 4,000′.

XXXVI. RHAMNACEÆ.

150. **Ventilago** Gaertn.

303. V. madraspatana Gaertn. No. 3683. Tamil *Vembadam.*
Flowers February. 1,000′—1,500′, especially in the drier tracts.

151. **Zizyphus** Juss.

304. Z. Jujuba Lam. Tamil *Yellandai.*
Flowers September; fruits cold weather. In the drier parts below 1,300′.

305. Z. trinervia Roxb. (Z. *glabrata* Heyne). Tamil *Karakattan.*
Flowers June; fruits September. 900′—1,500′.

306. Z. Œnoplia Thuill. Tamil *Shingai.*
Flowers September; fruits December to January. In deciduous forests; 1,000′—2,500′.

307. Z. xylopyra Willd.
Flowers May to August; fruits September to December. In deciduous forests; 1,000′—4,000′.

308. Z. rugosa Lam. Tamil *Kottai-maram.*
In open deciduous forest; 3,000′—4,000′.

152. **Scutia** Comm.

309. S. indica Brogn.
Flowers January; fruits June. Only in the dry eastern part; scarcely rising above the plains.

XXXVII. VITACEÆ.

153. Vitis L.

310. V. Woodrowii Stapf.
Flowers April. At Attakatti, 3,100′.

311. V. quadrangularis Wall. Tamil *Perendai.*
Flowers May; fruits during the rains. Below 1,500′.

312. V. repens W. & A. Nos. 3478, 3576.
Flowers May to August; fruits August. In moist deciduous and evergreen forests; 1,700′—3,000′.

313. V. discolor Dalz. No. 3492.
Flowers August and October; fruits October. Near Mount Stuart; 1,800′—2,300′. Often rooting at the nodes.

314. V. gigantea Bedd.
In the moist deciduous western forests; 1,700′—2,000′.

315. V. Linnæi Wall.
Flowers June; 1,000′—1,300′.

316. V. tomentosa Heyne.
Flowers September. In the moist western deciduous forests; 1,800′.

317. V. trifolia L. (*V. carnosa* Wall.)
Flowers August. Below 1,300′.

318. V. anamallayana Bedd. F.B.I. and F.P.M.
Banks of rivers, 5,000′ (Beddome); up to 6,000′ (Gamble).

319. V. tenuifolia W. & A. No. 3636.
Flowers June and August. In evergreen forest in the western portion; 2,400′.

320. V. lanceolaria Roxb.
Flowers April to May; fruits June to July. Evergreen forest; 3,500′—6,500′ and descending valleys to 1,000′.

321. V. pedata Vahl. A.C.
At about 4,000′.

154. Leea L.

322. L. aspera Wall. No. 3808.
Flowers May to July. In evergreen or moist deciduous forests at about 2,300′. The budding inflorescence is scarlet.

323. L. sambucina Willd.
Flowers April to July. In moist deciduous as well as evergreen forests; 2,200′—4,000′.

324. L. setuligera Clarke. No. 3494.
Flowers July and October. In the moist deciduous western forests; 1,800′—2,300′.

XXXVIII. SAPINDACEÆ.

155. Filicium Thw.

325. F. decipiens Thw. Muduva *Siru vagai.*
In evergreen forest in the Torakadavu valley; 2,600′—3,500′. (Up to 4,500′ Beddome.)

156. Cardiospermum L.

326. C. Halicacabum L.
Flowers and fruits September. Near Mount Stuart; 2,500′.

327. C. canescens Wall.
Flowers and fruits December to January; 900′—1,400′.

157. Hemigyrosa Bl.

328. H. dificiens Bedd. F.S. and A.C.
2,000′—5,000′.

329. H. canescens Thw. Tamil *Nassamathi.*
Flowers March to April; fruits May. Near streams in the dry eastern region; 1,000′-1,500′.

158. Allophylus L

330. A. Cobbe Bl. Tamil *Perra-kodi.*

Var. **racemosus**.
Flowers December. On dry rocky slopes; 2,800′.

VAR. **villosus.**

Flowers July; fruits August. In moist deciduous and evergreen forests; 2,000′—3,000′.

VAR. **Rheedii.**

Flowers December. Deciduous forests; 2,500′—4,000′.

159. Schleichera Willd.

331. **S. trijuga** Willd. Tamil *Puvam, Puvatti.*

Flowers February to March; fruits May; new leaves appearing in December and January. Fairly common in deciduous forest; 1,500′—4,000′. Attaining a large size in the moist western region.

160. Sapindus L.

332. **S. laurfiolius** Vahl. (*S. trifoliatus* Hiern.) No. 3689. Tamil *Puchikottai.*

Flowers November to February; fruits April to May. In the plains and on the lower slopes up to 2,000′.

333. **S. erectus** Hiern. F.S. and A.C.

In evergreen forest; 2,000′—5,000′.

334. **S. bifoliatus** Hiern. No. 3793. Tamil *Koduvamuriki.*

On dry, rocky hill-sides, 1,300′—1,600′.

161. Nephelium L.

335. **N. Longana** Camb. Nos. 3705, 3706. Pulaiya *Puva-maram.*

Flowers March to April; fruits April to May. In and near evergreen forest; 2,300′—4,000′.

336. **N. stipulaceum** Bedd. F.S.

2,000′. Rare.

162. Harpullia Roxb.

337. **H. imbricata** Thw. (*H. cupanioides* Hiern.) Kadir and Malasa *Uchai.*

Fruits April. Seen only at Ulandi in evergreen forest; 2,800′.

163. Dodonaea. L.

338. **D. viscosa** L. Tamil *Virali.*

Flowers July to December; fruits December to February, 1,000′—7,500′.

164. Turpinia Vent.

339. T. pomifera DC. No. 3413.
Flowers April to May. In evergreen forest; 3,000′—7,000′.

XXXIX. SABIACEAE.

165. Sabia Coleb.

340. S. malabarica Bedd. F. B. I.
Beddome! 3,000′—4,000′.

166. Meliosma Bl.

341. M. Wightii Planch.
Flowers December. At Kadamparai; 2,800′.

342. M. simplicifolia Roxb. No. 3262.
Flowers January to April. In evergreen forest; 3,000′—4,000′.

343. M. Arnottiana Wight. Kadir *Manthalli-mara.*
Flowers April to May. In evergreen forest; 3,000′—5,000′.

XL. ANACARDIACEAE.

167. Rhus L.

344. R. mysorensis Heyne. Tamil *Mullu vedathi.*
Flowers February to March. 1,000′—1,400′.

168. Mangifera L.

345. M. indica L. Tamil *Ma-maram.*
Flowers January to February; fruits May. Along hill streams; 1,000′—3,000′.

169. Buchanania Roxb.

346. B. Lanzan Spreng. (*B. latifolia* Roxb.) Tamil *Morai-maram, Manisheru.*
Flowers February and July; leafless during the hot weather; fruits June. In deciduous forest; 1,800′—3,200′.

170. Solenocarpus W. & A.

347. S. indica W. & A.
Flowers appearing with the new leaves, April. In moist deciduous forest at about 2,500′.

171. Odina Roxb.

348. O. Wodier Roxb. No. 3427. Malasa *Anaikarai.*
Flowers May to June with the new leaves; fruits June to July. In deciduous forest throughout, but scattered.

172. Semecarpus L.

349. S. Anacardium L. f. No. 3629. Tamil *Sheru.*
Flowers August. In moist deciduous forest; 2,000′.

VAR. **cuneifolia** DC.
In the same locality as the type, but less common.

350. S. travancorica Bedd. A. C.
In evergreen forest at about 3,000.′

173. Holigarna Ham.

351. H. Arnottiana Hook. f. A. C.
In evergreen forest at 4,000′.

352. H. ferruginea March. A. C.
In evergreen forest at 3,200′.

353. H. Beddomei Hook. f. F. B. I. Beddome.

174. Nothopegia Bl.

354. N. Colebrookiana Bl. No. 3390. Muduva *Eri, Era.*
Flowers May. Torakadavu valley; 3,200′.

175. Spondias L.

355. S. mangifera Willd. Kadir *Puli-illai.*
In and near evergreen forest; 2,000′—3,000′.

356. S. acuminata Roxb. A. C.
In evergreen forest at about 3,200′.

XLI. MORINGACEAE.

176. Moringa Lam.

357. M. pterygosperma Gaertn. No. 3679. Tamil *Muringai.*
Flowers January; fruits April to May, 900′—1,500′. Commoner in the dry eastern region.

XLII. CONNARACEAE.

177. Connarus L.

358. C. macrocarpus L. A. C.
In evergreen forest at 4,000′.
359. C. Wightii Hook. f. No. 3590.
Flowers May. In evergreen forest at 4,000′.

XLIII. LEGUMINOSÆ.

178. Rothia Pers.

360. R. trifoliata Pers.
Flowers January and September; fruits February. In the drier parts below 1,200′.

179. Crotalaria L.

361. C. biflora L. No. 3201.
Flowers and fruits December. 1,000′—1,200′.

362. C. prostrata Roxb. No. 4035.
Flowers and fruits December. Mount Stuart; 2,000′.

363. C. humifusa Grah. F. B. I. Beddome. 4,000′.

364. C. acicularis Ham. No. 3518.
Flowers and fruits December. In moist deciduous forest near Mount Stuart; 2,000′.

365. C. evolvuloides Wight. No. 3852.
Flowers and fruits January to May. In open grass lands; 3,000′—7,500′. This may be, in part at least, *C. Fysoni* Dunn, Kew Bulletin 1913.

366. **C. bifaria** L.
Flowers September. Near Mount Stuart; 2,200′.

367. **C. Wightiana** Grah.
Flowers January. In open grass land; 4,500′.

368. **C. ovalifolia** Wall. (*C. rubiginosa* Baker).
Flowers and fruits January. In open grass land, Ibex Peak; 4,800′.

369. **C. mysorensis** Roth.
Flowers and fruits May and December. 2,300′—3,100′.

370. **C. triquetra** Dalz.
Flowers and fruits December to January. 3,000′.

371. **C. albida** Heyne.
Flowers May. In open grass land; 5,000′—6,000′.

372. **C. nana** Burm.
Flowers and fruits November to December. 3,500′.

373. **C. calycina** Schrank.
Flowers and fruits December to January. 2,000′—3,500′.

374. **C. dubia** Grah. Nos. 3510, 3916.
Flowers and fruits December to January. About 2,200′.

375. **C. priestleyoides** Benth. F. B. I. Beddome.

376. **C. peduncularis** Grah. No. 3672.
Flowers December. 2,600′.

377. **C. retusa** L.
Flowers and fruits October to April. 4,000′—7,000′.

378. **C. lanata** Bedd. F. B. I. Beddome!
3,000′—4,000′.

379. **C. verrucosa** L.
Flowers May. 1,500′.

880. **C. semperflorens** Vent.
Flowers and fruits December to January. 2,800′-4,000′.

381 **C. Heyneana** Grah.
Flowers September to December. In the West; 2,400′.

382. **C. juncea** L.
Flowers and fruits December to January. 900′—3,000′.

383. **C. obtecta** Grah.
Flowers December; fruits April to May. 3,000′—6,000′.

384. **C. subperfoliata** Wight.
Flowers January, May and December. 1,000′—4,500′.

385. **C. medicaginea** Lam. VAR. **luxurians.**
Flowers and fruits December. 1,000′.

386. **C. Willdenoviana** DC.
Flowers and fruits February, June, August and December. In the drier parts, 1,000′.

387. **C. Notonii** W. & A.
Flowers September. Near Mount Stuart at 2,500′.

388. **C. laburnæfolia** L.
Flowers and fruits February. 1,100′—1,300′.

389. **C. Grahamiana** W. & A.
Flowers and fruits January. 3,000′—4,500′.

180. Cyamopsis DC.

390. **C. psoralioides** DC.
Flowers and fruits June. In the dry eastern area; 1,000′.

181. Indigofera L.

391. **I. enneaphylla** L.
Flowers and fruits August to December. 1,000′.

392. **I. viscosa** Lam.
Flowers and fruits December. 1,200′.

393. **I. pedicellata** W. & A.
Flowers April to May. In open grass land above 7,000′.

394. I. uniflora Ham.
Flowers and fruits September to January. On rocky hill-sides; 1,200′—3,000′.

395. I. trifoliata L.
Flowers and fruits December. In the extreme West; 1,800′.

396. I. trita L.
Flowers and fruits December, 1,200′—3,000′.

397. I. subulata Vahl.
Flowers and fruits September to December, 1,200′—3,000′.

398. I. marginulata Grah.
Flowers and fruits September. On exposed, dry, rocky hillocks in the eastern region at about 1,300′.

399. I. parviflora Heyne.
Flowers December. At Setumadai; 1,200′.

400. I. hendecaphylla Jacq.
Flowers and fruits October. 1,000′—3,000′.

401. I. Houer Forst. (*I. argentea* Linn. VAR. *caerulea* Baker).
Flowers and fruits September. 1,200′.

402. I. tinctoria L.
Flowers September. Up to 1,300′. Presumably an escape from cultivation.

403. I. Wightii Grah.
Flowers May; fruits May to December. 1,700′—3,300′. Baker in the Flora of British India (Vol. II, page 99) gives the habitat as: "Plains of the Western Peninsula and Ceylon." I have found it far more common on the hills and not below 1,700′ in the present area. In the Attapadi valley in Malabar I found it at 4,000′.

404. I. galegoides DC. No. 3519.
Fruits December. In the moist western forests; 1,800′.

405. I. pulchella Roxb.
Flowers and fruits throughout the year with favourable rain, 3,000′—5,000′.

182. Millettia W. & A.

406. M. splendens W. & A. F. B. I.

183. Mundulea DC.

407. M. suberosa Benth.
Flowers June, fruits rains to cold weather. On the dry slopes in the eastern region; 1,400′.

184. Tephrosia Pers.

408. T. tinctoria Pers.
Flowers and fruits December. 2,000′—3,000′.

409. T. spinosa Pers. No. 3656.
Flowers and fruits November to December. In the West; 1,200′.

410. T. purpurea Pers. Tamil *Kolinji*.
Flowers and fruits May and December. 900′—1,200′.
VAR. **maxima** Baker.
Flowers and fruits December. 1,200′.

411. T. villosa Pers.
Flowers and fruits June and December. 1,000′—1,300′.

185. Sesbania Pers.

412. S. aculeata Pers.
Flowers October to December. In damp situations in the moist western region. 1,200′—1,800′.

413 S. grandiflora Pers.
Cultivated near the foot of the hills.

186. Zornia Gmel.

414. Z. diphylla Pers.
Flowers and fruits September to December. 1,000′—3,000′.

187. Smithia Ait

415. **S. gracilis** Benth. No. 3225.
Flowers and fruits December. Above Attakatti; 3,400′.

416. **S. pycnantha** Benth. No. 3676.
Flowers and fruits December to January. 3,000′—4,500′.

417. **S. blanda** Wall. VAR. **racemosa** Baker.
Flowers October. In the western region; 3,800′.

188. Æschynomene L.

418. **Æ. indica** L.
Flowers and fruits May to June. In the dry eastern region; 1,000′.

189. Pycnospora R. Br.

419. **P. heydisaroides** R. Br. No. 3763.
Flowers and fruits September. On Vengoli ridge in the West; 5,200′.

190. Uraria Desv.

420. **U. hamosa** Wall.
Flowers and fruits September. Near Mount Stuart; 2,100′.

191. Alysicarpus Neck.

421. **A. monilifer** DC.
Flowers and fruits December. 1,000′—1,400′.

422. **A. bupleurifolius** DC. No. 3206.
Flowers and fruits December. 2,500′—3,200′.

423. **A. rugosus** DC.
Flowers and fruits December. 1,500′—2,000′.

192. Desmodium Desv.

424. D Cephalotes Wall. **No.** 3493.
Flowers and fruits October to January. A very common shrub in the undergrowth of the moist deciduous forests of the western extremity; 1,700′—2,000′.

425. D. ormocarpoides DC. No. 3637.
Flowers and fruits August. In evergreen forest at Karianshola in the West; 2,400′.

426. D. pulchellum Benth. No. 3917.
Flowers September to November; sometimes on into December; fruits December and January. A common shrub in the same locality as *D. Cephalotes* Wall, but from 1,200′—3,000′.

427. D. triquetrum DC.
Flowers September to January; fruits December to April. In moist or semi-moist deciduous forest; 1,500′—3,000′.

428. D. laxiflorum DC.
Flowers May, September and December; fruits September to December. In moist deciduous forest; 1,700′—3,000′.

429. D. Scalpe DC.
Flowers and fruits December; 2,500′—3,500′.

430. D. latifolium DC.
Flowers September to January; fruits December to April. In moist deciduous forests; 1,200′—3,000′.

431. D. rufescens DC.
Flowers January to April; fruits April. 4,000′—6,500′.

432. D. polycarpum DC. var. **trichocaulon.**
Flowers and fruits December. 3,000′.
Var. ? No. 3279.
Flowers and fruits January. At Attakatti; 3,100′.

433. D. parviflorum Baker. F. B. I.
2,000′—5,000′ (Gamble).

434. D. triflorum DC.
Flowers and fruits September to December. 1,800′—3,000′.

435. D. parvifolium DC. No. 3237.
Flowers and fruits December. 2,800′—3,500′.

436. D. gyrans DC. No. 3915.
Flowers and fruits September to January. 1,800′—3,200′.

193. Abrus L.

437. A. precatorius L. Tamil *Kundumani*.
Flowers May and December; fruits December. In the dry tracts; 1,000′—1,700′.

194. Dumasia DC.

438. D. villosa DC.
Flowers December to January. 3,000′—5,000′.

195. Glycine L.

439. G. javanica L.
Flowers December; fruits December to January. 1,200′—3,000′.

196. Teramnus Sw.

440. T. labialis Spreng. VAR. **mollis.**
Fruits December; 2,500′.

197. Mucuna Adans.

441. M. atropurpurea DC. Tamil *Tellu-kai*.
Flowers and fruits January to February. 2,800′.

442. M. hirsuta W. & A.
Flowers and fruits December. 3,000′.

198. Erythrina L.

443. E. stricta Roxb.
Flowers February. 2,500′—3,300′.

444. E. indica Lam.
Flowers and fruits June. Probably planted only. 900′.

445. E. lithosperma Bl.
Planted as a shade tree over coffee.

199. Galactia P. Br.

446. G. tenuiflora W. & A.
Flowers August, 2500′.
VAR. **villosa.**
Flowers and fruits December. In evergreen forest; 4,000′.

200. Spatholobus Hassk.

447. S. Roxburghii Benth.
Flowers September to October; fruits December. A troublesome climber in the moist deciduous forests; 1,800′—2,500′.

201. Butea Roxb.

448. B. frondosa Roxb. No. 3702. Tamil *Porasu.*
Flowers February to March; new leaves beginning to appear in March; fruits May onwards. 1,700′—3,000′.

702. Canavalia DC.

449. C. ensiformis DC. Tamil *Tambuta-avarai.*
Flowers August to December; fruits October to December. 2,000′—3,000′.

203. Pueraria DC.

450. P. tuberosa DC. No. 3297.
Flowers March to April. 3,000′.

204. Phaseolus L.

451. P. trilobus Ait.
Flowers and fruits December. 1,200′.

452. P. aconitifolius Jacq.
Fruits February. 1,000′.

453. P. Mungo L. VAR. **Wightianus** Grah.
Flowers and fruits December, 1,200′.

454. P. calcaratus Roxb.
Flowers and fruits December. At Mount Stuart; 2,200′.

455. P. sublobatus Roxb. (P. *trinervius* Heyne.)
Flowers and fruits, August to October. 1,800′—2,200′.

205. Vigna Savi.

456. V. vexillata Benth. Cleg.

457. V. pilosa Baker. No. 3655.
Flowers November. At Mount Stuart; 2,200′.

206. Clitorea L.

458. C. Ternatea L.
Flowers and fruits May to September. 1,000′—1,200′.

207. Dolichos L.

459. D. Lablab L.
Flowers and fruits January to February. 1,000′—2,600′.

460. D. falcatus Klein.
Flowers and fruits October. 1,800′.

208. Atylosia W. & A.

461. A. crassa Prain. (*A. mollis* Benth.)
Flowers February and June. 1,200′—2,000′.

462. A. rugosa W. & A. No. 3285.
Flowers January. 4,500′.

463. A. scarabeoides Benth.
Flowers and fruits December. Mount Stuart; 2,200′.

209. Dunbaria W. & A.

464. D. ferruginea W. & A.
Flowers and fruits December. Attakatti. 3,000′.

210. Rhynchosia Lour.

465. R. rufescens DC. No. 3861.
Flowers and fruits January. Mount Stuart; 2,200′.

466. R. aurea DC.
Flowers December. 1,200′.

467. R. cana DC.
Flowers and fruits December. 3,000′.

468. R. cyanosperma Benth.
Flowers December; fruits April. 3,000′.

469. R. minima DC.
Flowers and fruits December. 1,000′.

470. R. viscosa DC.
Flowers and fruits December to January. 2,200′.

471. R. densiflora DC.
Flowers November to December; fruits December. In the western half; 1,000′—1,300′.

211. Flemingia Roxb.

472. F. strobilifera R. Br.
Flowers September to December; fruits December to April. 2,000—3,000.

473. F. Grahamiana W. & A. No. 3286.
Flowers January. On Ibex Hill; 4,600′.

474. F. semi-alata Roxb. (*F. congesta* Roxb. VAR. *semi-alata*).

Flowers January; 3,300′.

475. F. bracteata Wight. (*F. strobilifera* R. Br. VAR. *bracteata*). No. 3672.

Flowers September to December; fruits December. 3,000′.

476. F. vestita Benth. VAR **nilgheriensis**.

Flowers January. On Ibex Hill; 4,800′.

212. Dalbergia L.

477. D. latifolia Roxb. No. 3657. Tamil *Iti*; Malayalam *Biti*.

Flowers August to September (also seen in March at Attakatti); fruits November to January. Throughout the chain in deciduous forests, both dry and moist; 1,200′—4,000′. Attaining a very large size in the moist western area. The pods are frequently 5-seeded.

478. D. sissoides Grah. Tamil *Iti*.

Much less common than the last, generally in drier localities and not descending so low. It is a smaller tree. Flowers and fruits at the same season.

479. D. lanceolaria L. No. 3652.

Fruits October. Seen only in the moist western area; 1,500′—2,000′.

480. D. volubili Roxb.

Flowers March; fruits April to May. In moist deciduous forests; 1,500′—2,000′.

481. D. paniculata Roxb. No. 3421. Tamil *Pachchalan*.

Flowers May to June; fruits cold season. On the lower slopes throughout; from the foot up to 3,000′.

213. Pterocarpus L.

482. P. Marsupium Roxb. Tamil and Malayalam *Vengai*.

Flowers August to October; fruits December to January, but sometimes remaining on the trees till May. In deciduous forests, both dry and moist, throughout the hills; 1,000′—4,000′. In the moist forests it becomes an enormous tree.

214. Pongamia Vent.

483. P. glabra L. Tamil *Pungam.*

Flowers January to March; fruits September to October. Generally found near streams and ponds; 900′—1,600′.

215. Derris Lour.

484. D. scandens Benth.

Flowers November; fruits December. All along the foot of the hills, rising to 2,000′.

485. D. eualata Bedd. No. 3354.

Flowers April. In evergreen forest; 4,000′—6,500′.

216. Ormosia Jacks.

486. O. travancorica Bedd. No. 3261.

Fruits January to April. In evergreen forest; 4,000′.

217. Caesalpinia L.

487. C. Bonducella Flem.

In the dry eastern tract; 1,000′.

488. C. mimosoides Lam. Malasa *Nariporandi-mulla.*

Flowers December to January; fruits January to April. In the moist deciduous forests, forming dense thickets; 1,700′—3,000′. The crushed leaves have an odour of bugs.

218. Mezoneurum Desf.

489. M. cucullatum W. & A. Tamil *Kottimulla-kodi.*

In and near evergreen forest; 1,600′—3,000′.

219. Pterolobium R. Br.

490. P. indicum A. Rich. Tam. *Karindu, Narimorandi*; Pulaiya *Koranjuri-mulla.*

Flowers May to July; fruits August to December. Along the foot of the hills; rising to 2,500′

220. Cassia L.

491. C. Fistula L. Tamil *Konnai.*

Flowers April to May ; new leaves appear in May ; fruits cold season. Common both in dry and in moist deciduous forests and reaching a large size in the latter ; 1,000′—4,000′.

492. C. occidentalis L.

Flowers and fruits throughout the year. 900′—3,000′.

493. C. Tora L.

Flowers September ; fruits December. 1,200′—2,800′.

494. C. auriculata L. Tamil *Avarai, Avaram.*

Flowers and fruits at all seasons, but fruits chiefly in the hot weather. In the dry low-lying areas and up to 1,500′.

495. C. obovata Collad.

At the foot of the hills.

496. C. Absus L.

Flowers and fruits in the rains and cold season. Usually found in dry rocky places ; 1,000′—2,500′.

497. C. Kleinii W. & A.

Flowers and fruits during the rains. 1,700′—2,000′.

498. C. mimosoides L.

Flowers and fruits in the cold season. 1,500′—3,000′.

221. Hardwickia Roxb.

499. H. binata Roxb. No. 3486. Tamil *Acha.*

Flowers September ; fruits hot weather. In the dry hills of the eastern extremity ; 1,200′—2,000′.

222. Tamarindus L.

500. T. indica L. Tamil *Puli.*

Flowers April to June ; fruits cold season. Along the foot of the hills and rising to 4,500′ in the eastern portion. Absent from the moist and wet forests.

223. Bauhinia L.

501. B. racemosa Lam. Tamil *Athi*.

Flowers April ; fruits November ; 1,000′—2,000′.

502. B. malabarica Roxb. No. 3761. Tamil *Athi*.

Flowers rains ; fruits cold season. Confined to the moist deciduous forests of the west ; 1,800′—2,500′.

503. B. phoenicia Heyne. A. C.

In evergreen forest at Udumanparai, 3,000′.

224. Xylia Benth.

504. X. xylocarpa Taub. Tamil *Irul*.

Flowers July ; fruits April ; leafless in March, new leaves appearing in April. Confined to the moist deciduous forests of the west ; 1,500′—2,000′.

225. Entada Adans.

505. E. scandens Benth. Tamil *Anaitellu*.

Fruits December to February. Usually near streams ; 1,500′—2,500′.

226. Dichrostachys Dc.

506. D. cinerea W. & A. Tamil *Wadathalai*.

Flowers and fruits practically throughout the year. Commonest in the driest areas, where it is very gregarious ; 900′—2,000′.

227. Acrocarpus W. & A.

507. A. fraxinifolius Wight. No. 3230. Malasa *Alinji*.

Flowers December to January ; the new leaves appearing with the flowers, but many old leaves still clinging to the branches. Seen only in the Torakadavu valley at 2,500′ by me, but reported by Beddome at 4,000′.

228. Acacia Willd.

508. A. planifrons W. & A. Tamil *Koduvelam, Kodaisithan*.

Flowers January. Rare within our limits but not at all uncommon in the adjoining low country to the immediate north of the eastern extremity. Below 1,100′.

509. A. arabica Willd. Tamil *Karuvelam.*

Flowers during the rains; fruits cold season. At the foot of the hills along channels and in and about tanks; occasionally found in the hills up to 2,600′.

510. A. leucophlœa Willd. Tamil *Velvelam.*

Flowers during the rains ; fruits cold season. 900′—2,000′. Growing to a very large size and quite straight in the moist deciduous forests of the west.

511. A. Suma Kurz.

Flowers May to August ; fruits June to September. Seldom away from water. Not common. 1,200′.

512 A. ferruginea Dc. Tamil *Parambai, Vanni.*

Flowers May and September ; fruits November and May. 1,000′—1,300′. Commoner in the west.

513. A. Latronum Willd.

Flowers rains and early cold season; fruits late cold season and hot season. In the eastern region ; below 1,200′.

514. A. concinna Dc. Tamil *Shigakai.*

Flowers September ; fruits cold season. 2,000′—3,000′.

515. A. Intsia Willd. Tamil *Ingai, Shingai.*

Flowers rains and cold season ; fruits hot season. Throughout the hills in deciduous forests ; 1,000′—3,500′.

515. A. pennata Willd. No. 3686. Tamil *Ingai.*

Fruits hot weather. 1,000′—2,500′.

229. Albizzia Durazz.

517. A. Lebbek Benth. Tamil *Vaghai, Karuvaghai.*

Flowers March to April, fruits rains to cold weather and remaining on the tree till the hot weather. 1,000′—3,000′. Growing to a large size in the moist deciduous forests in the West.

518. A. odoratissima Benth. Tamil *Siruvaghai.*

Flowers April to May ; fruits May to June. 2,000′—4,000′.

519. A. procera Benth. Tamil *Nirvaghai.*

Fruits March to April. Seen only near the Amaravati ; 1000′.

223. Bauhinia L.

501. B. racemosa Lam. Tamil *Athi.*

Flowers April ; fruits November ; 1,000′—2,000′.

502. B. malabarica Roxb. No. 3761. Tamil *Athi.*

Flowers rains ; fruits cold season. Confined to the moist deciduous forests of the west ; 1,800′—2,500′.

503. B. phoenicia Heyne. A. C.

In evergreen forest at Udumanparai, 3,000′.

224. Xylia Benth.

504. X. xylocarpa Taub. Tamil *Irul.*

Flowers July ; fruits April ; leafless in March, new leaves appearing in April. Confined to the moist deciduous forests of the west ; 1,500′—2,000′.

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Fruits December to February. Usually near streams ; 1,500′—2,500′.

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229. Albizzia Durazz.

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518. A. odoratissima Benth. Tamil *Siruvaghai.*

Flowers April to May; fruits May to June. 2,000′—4,000′.

519. A. procera Benth. Tamil *Nirvaghai.*

Fruits March to April. Seen only near the Amaravati; 1000′.

520. A. stipulata Boiv. No. 3291.

Fruits May. In evergreen forest; 3,000′.

521. A. amara Boiv. Tamil *Usil, Unjal.*

Flowers rains to February; fruits November to hot weather. In all the deciduous forests from 900′—1,400′.

230. Pithecolobium Mart.

522. P. bigeminum Benth. No. 3575.

Flowers and fruits April to May. In evergreen forest and running down the valleys into deciduous forest at about 3,000′. Pinnae often with 4 pairs of leaflets.

523. P. subcoriaceum Thw. No. 3307.

Flowers and fruits March to April. In evergreen forest; 5,000′—6,500′.

XLIV. ROSACEAE.

231. Pygeum Gaertn.

524. P. Wightianum Bl. No. 3810.

Fruits early rains. In and near evergreen forest; 1,400′—3,000′.

525. P. ceylanicum Gaertn. F. S.

Evergreen forest at 4,000′.

232. Rubus L.

526. R. moluccanus L.

Flowers January to May; fruits April to June. In open grass lands at the edges of evergreen forest; 4,000′—7,000′.

527. R. ellipticus Smith.

Flowers January to March; fruits April to May. In the same localities as the last species.

528. R. lasiocarpus Smith.

Flowers December to March; fruits April to May. In the same localities as the last two species.

233. Fragaria L.

529. F. indica Andr.
Flowers April. In open grass land; above 6,000′.

234. Photinia Lindl.

530. P. Notoniana W. & A. F. S.
"Higher elevations."

XLV. SAXIFRAGACEÆ.

235. Vahlia Thunb.

531. V. viscosa Roxb. No. 3692.
Flowers and fruits February. Just within the area in the eastern portion at 900′.

532. V. oldenlandioides Roxb.
Flowers and fruits February and June. In the dry eastern region, close to water; 900′—1,200′. I have found the petals yellow invariably.

236. Parnassia L.

533. P. mysorensis Heyne. A. C.
"Near evergreen forest, 4,000′."

XLVI. CRASSULACEÆ.

237. Bryophyllum Salisb.

534. B. calycinum Salisb.
Flowers February; fruits May. In the dry eastern region; 1,500′.

238. Kalanchoe Adans.

535. K. floribunda W. & A. No. 3238.
Flowers December to January. Petals white. At Attakatti; 3,400′.

536. K. olivacea Dalz. No. 3667.
Flowers December. On rocks near Kadamparai; 3,000′. The upper part of the stem is often red or splashed with red.

537. K. laciniata DC. No. 3797.
Flowers February. 1,000′—2,000′.

XIVII. DROSERACEÆ.

239. Drosera L.

538. D. Burmannii Vahl.
Flowers and fruits April to May. 4,500′—6,500′.

539. D. indica L.
Flowers and fruits August to October. 1,900′—3,300′.

540. D. peltata Sm.
Flowers and fruits Maich to April. 7,500′.

XLVIII. HALORAGIDACEÆ.

240. Serpicula L.

541. S. indica Thw.
Flowers and fruits April to May. In Koramparai swamp; 7,500′.

XLIX. COMBRETACEÆ.

241. Terminalia L.

542. T. belerica Roxb. No. 3601. Tamii *Thani*.
Flowers April to May; new leaves April; fruits September. 1,000′—2,800′.

543. T. Chebula Retz. Tamil *Kadukai*.
Flowers March to April; fruits cold weather. 2,500′—4,500′.

544. T. Arjuna Bedd. No. 3442. Tamil *Vellamarudu.*

Flowers May; fruits cold season. Seldom away from streams; 900'-1,600'.

545. T. tomentosa Bedd. Tamil *Karamarndu.*

Flowers hot season; fruits rains; new leaves April. In deciduous forest throughout; 1,000'—4,000'. An immense tree in the moist western forests.

546. T. paniculata Roth. Tamil *Pillamarudu.*

Flowers September; fruits cold season, remaining on the tree till April. Almost confined to the moist deciduous forests in the west, where it rivals the last-named in size; 1,200'—2,500'.

242. Calycopteris Lam.

547. C. floribunda Lam. No. 3697.

Flowers February. At the foot of the hills in the west.

243. Anogeissus Wall.

548. A. latifolia Wall. No. 3482. Tamil *Vekkali, Vellanagai.*

Flowers September to October; fruits cold season; leafless March to April; new leaves April to May. In all the deciduous forests; 1,000'—4,000'. Growing very large in the moist west.

244. Combretum L.

549. C. ovalifolium Roxb. Nos. 3699, 3787.

Flowers February to March; fruits February to June. Along the foot of the hills, usually near streams; 900'—1,800'.

245. Gyrocarpus Jacq.

550. G. americanus Jacq. (*G. Jacquini* Roxb.) Tamil *Thanaku, Karamthanaku.*

Flowers February; fruits May; leafless from February on, often until well on in June in the drier localities. Very common in the Amaravati valley, where it is also much attacked by *Loranthus longiflorus* Desrouss. It seems able to cast off the attacked branches with the parasite, a large burr being left behind.

L. MYRTACEÆ.

246. Rhodomyrtus DC.

551. R. tomentosa Wight. Muduva *Karatam-pallam.*
Flowers May. Above 6,000′.

247. Eugenia L.

552. E. Munronii Wight. No. 3737. Pulaiya *Mangolu-maram.*
Flowers and fruits April to May. In dense evergreen forest; 3,300′—4,500′. (There is some doubt as to whether this is not *E. aquea* Burm., but it seems to me that it is as named.)

553. E. hemispherica Wight. No. 3311.
Flowers March to April. In evergreen forest; above 4,000′.

554. E. macrocarpa Roxb. A. C.
"In evergreen forest; about 3,000′."

555. E. laeta Ham. A. C.
"In evergreen forest; about 3,000′."

556. E. cymosa Lam. VAR. **rostrata** F. B. I. Beddome & A. C.
In evergreen forest; about 4,500′.

557. E. caryophyllæa Wight. A. C.
In evergreen forest at about 3,500′.

558. E. Arnottiana Wight.
Flowers March to April; fruits April to May. In evergreen forest; 4,000′-8000′.

559. E. Gardneri Thw. F. S.
Up to 4,000′.

560. E. revoluta Wight. No. 3729.
Flowers April. In evergreen forest: over 6,30′.

561. E. calophyllifolia Wight. Muduva *Nawa-maram*; Pulaiya *Padra-mara.*
Flowers March to April; fruits April to May. In evergreen forest; over 6,400′.

562. E. malabarica Bedd. F. S.

563. E. Jambolana Lam. Tamil *Nava-mara.*
Flowers April to May; fruits rains; 1,000′—4,000″.

564. E. bracteata Roxb. F. B. I. Beddome! and A. C.
In evergreen forest; 2,000′—4,000′.

565. E Mooniana Wight. No. 3814.
Flowers May. Seen only on Ibex Hill; 5,000′.

248. Careya Roxb. Lecythidaceae

(1) **566. C. arborea** Roxb.
Flowers April, when the tree is usually leafless; fruits May. Often in swampy situations; 1,000′—3,000′.

LI. MELASTOMACEÆ.

249. Osbeckia L.

567. O. truncata Don. No. 3236.
Flowers and fruits September to December. 1,700′—3,500′.

568. O. zeylanica Willd. No. 3213.
Flowers February, May, August and December; fruits May and December. 1,000′—4,000′.

569. O. hispidissima Wight.
Flowers April. Seen only once on the banks of the Nallaimalaiar near Mukottu Mudi in dense evergreen forest at about 3,000′.

570. O. buxifolia Arn. A. C.
At about 3,000′.

571. O. aspera Bl. var **minor.** A. C.
At about 4,000′.

572. O. garcili Bedd. F. B. I. Beddome!
4,000′.

573. **O. Leschenaultiana** DC. No. 3323.
Flowers March to April. On grassy downs; 7,500′.

574. **O. Wightiana** Benth. A. C.
3,600′.

575. **O. octandra** DC. A. C.
3,500′.

576. **O. reticulata** Bedd. F. B. I. Beddome!
Above 6,000′.

577. **O. Wynaadensis** C. B. Clarke.
Flowers April to May. 3,000′—4,000′.

250. Kendrickia Hook. f.

578. **K. Walkeri** Hook. f. F. B. I. Beddome!

251. Sonerila Roxb.

579. **S. Brunonis** W. & A. No. 3273.
Flowers September and January; fruits January. 3,000′4,—500′.

580. **S. grandiflora** Wall. No. 3259, 3324.
Flowers and fruits January to April. Along stream beds and on their banks; 4,000′—7,500′.

581. **S. Wallichii** Benn. F. B. I. Beddome!

582. **S. rotundifolia** Bedd. F. B. I. Beddome!

252. Medinilla Gaud.

583. **M. Beddomei** C. B. Clarke. Nos. 3580, 3736.
Flowers April to May. No. 3580 in evergreen forest at about 3,000′; No. 3736 (which was in bud only and might be M. *fuchsioides* Gaud.) in evergreen forest at 7,000′.

584. **M. malabarica** Bedd. F. B. I. Beddome.
3,000′—4,000′.

253 Memecylon L.

585. M. amplexicaule Roxb. A. C.
In evergreen forest at about 3,000′.

586. M. Heyneanum Benth. No. 3703.
Fruits April to May. 3,500′—4,500′.

587. M. umbellatum Burm. (M. *edule* Roxb.) Nos. 3280, 3749. Muduva and Pulaiya *Pulluvarasi.*
Flowers January to June. 1,000′—4,000′.

LII. LYTHRACEÆ.

254. Ammannia L.

588. A. peploides Spreng. No. 3520.
Flowers November. 1,800′—2,000′.

589. A. pentandra Roxb. No. 3218*b*.
Flowers and fruits December. 2,000′—3,000′.

590. A. baccifera L.
Fruits September. At Mount Stuart; 2,200′.

591. A. salicifolia Monti. No. 3521.
Flowers September; fruits December. 1,200′.

592. A. multiflora Roxb. No. 3790.
Flowers and fruits February. In the dry eastern region at the margins of pools and streams; 1,100′.

593. A. sp. nov.? Nos. 3218, 4029.

Flowers and fruits December. Just above Attakatti, 3,300′ and at Mount Stuart; 2,200′. This species has not yet been named. It was under investigation by the late Mr. M. Ramaswamy at the time of his untimely and lamented death. It is probably *Ammannia* (*Rotala*) *Fysonii* Blat & Hallb.

255. Lagerstroemia L.

594. L. lanceolata Wall. Tamil *Ventek*; Malayali *Bentek*.
Flowers April to August; fruits at end of the rains. Commonest in the moist western forests, where it attains to a very large size; 1,500′—3,500′

595. L. Flos-Reginæ Retz. No. 3811. Kadir *Yellangi*.
Flowers April to May; fruits at end of rains and cold season. I have only found this species on the Cochin frontier in the extreme West. On the banks of streams and other wet situations at about 1,600′.

LIII. ONAGRACEÆ.

256. Jussiæa.

596. J. suffruticosa L.
Flowers and fruits May, August and October. 1,000′—3,000′.

257. Ludwigia L.

597. L. parviflora Roxb.
Flowers and fruits October to February. In damp places; 1,000′—3,000′.

LIV. SAMYDACEÆ,

258. Casearia Jacq.

598. C. graveolens Dalz. No. 3463. Malasa *Kallali-maram*.
Fruits August. 1,300′—2,700′.

599. C esculenta Roxb. No. 3385.
Flowers April to May. In evergreen forest; 4,000′.

17. coriacea, Thw. t

18. Homalium zeylanicum, Benth. T

LV. PASSIFLORACEÆ.

259. Passiflora L.

600. P. foetida L.
Flowers and fruits July to October. 1,200′-2,200′.

601. P. Leschenaultii DC.
6,300′.

260. Modecca Lam.

602. M. palmata Lam.
Mount Stuart ; 2,200′.

LVI. CUCURBITACEAE.

261. Trichosanthes L.

603. T. palmata Roxb.
Flowers July to December ; fruits hot season. 2,000′-3,300′.

604. T. cucumerinus L. No. 4036.
Flowers and fruits August to December. 1,200′-1800′.

605. T. lobata Roxb.
Flowers January and May. In and near evergreen forest ; 4,000′.

262. Gymnopetalum Arn.

606 G. Wightii Arn.
Flowers March and August. In the moist deciduous forests and neighbouring evergreen forest ; 2,600′-4,000′.

263. Momordica L.

607. M. Charantia L. No. 3491.
Flowers and fruits September to October. At Karianshola ; 2,400′.

608. M. dioica Roxb.
Flowers July. At Mount Stuart ; 2,200′.

264. Cucumis L.

609. C. trigonus Roxb.
Flowers and fruits June. 1,200′.

265. Citrullus Schrad.

610. C. colocynthis Schrad.
Flowers and fruits June. 1200′.

266. Coccinia W. & A.

611. C. indica W. & A. (*Cephalandra indica* Naud.)
Flowers and fruits throughout the year. 1,000′-1,300′.

267. Bryoniopsis Arn.

612. B. laciniosa Naud. (*Bryonia laciniosa* L.)
Flowers and fruits in the cold season. 1,200′-3,000′.

268. Melothria L.

613. M. maderaspatana Cogn. (*Mukia scabrella* Arn.)
Flowers and fruits in the rains and cold weather. 1,200′-3,000′.

614. M. leiosperma Cogn. (*Mukia leiosperma* Thw.)
Flowers May. 4,500′.

615. M. Baueriana Cogn. (*Zehneria Baueriana* Endl.)
Flowers December. 3,100′.

616. M. perpusilla Cogn. (*Zehneria Hookeriana* Arn.)
Flowers May to June. 2,200′-4,500′.

617. M. umbellata Cogn. (*Zehneria umbellata* Thw.) A. C. 3,000′.

618. M. zeylanica C. B. Clarke. No. 3668.
Flowers December. Kadamparai; 2,800′.

269. Corallocarpus Welw.

619. C. epigaea Hook. f.
Flowers February; fruits September. 1,000′-1,500′.

270. Blastania Klotsch & Peyr.

620. B. Garcini Cogn. (*Ctenolepis Garcini* Naud.)
Flowers cold season ; fruits February to hot season. 1000′-1600′.

LVII. BEGONIACEÆ.

271. Begonia L.

621. B. fallax A. DC. No. 3250.
Flowers and fruits January to May. In open glades in evergreen forest at about 4,000′.

622. B. malabarica Lam. No. 3207.
Flowers and fruits December to May. 1,500′-4,500′.

LVIII. DATISCACEAE.

272. Tetrameles R. Br.

623. T. nudiflora R. Br. Tamil and Malayalam *Chini*. Rare ; seen only in the westernmost tract ; 1,800′-2,000′.

LIX. CACTACEÆ.

273. Opuntia Mill.

624. O. Dillenii Haw.
Flowers and fruits all the year. A very troublesome pest that has run wild and grows in dense thickets all along the foot of the hills and occurs also here and there in the hills. Up to about 3,200′.

LX. FICOIDEÆ.

274. Trianthema L.

625. T. monogyna L.
Flowers and fruits July. At the lowest elevations.

626. T. decandra L.
Flowers and fruits June. At the lowest elevations.

275. Mollugo L.

627. M. hirta Thunb.
Flowers and fruits June. 1,000′-1,300′.

628. M. oppositifolia L. (*M. Spergula* L.)
Flowers and fruits May to September. 1,000′-1,500′.

629. M. pentaphylla L. (*M. stricta* L.)
Flowers and fruits December to June. 1,000′-1,300′.

630. M. Cerviana Seringe.
Flowers and fruits December to January, May and July. 9,00′-1,300′.

276. Gisekia L.

631. G. pharnaceoides L.
Flowers and fruits May. In the dry eastern region ; 1,100′.

LXI. UMBELLIFEREÆ.

277. Hydrocotyle L.

632. H. javanica Thunb.
Flowers and fruits throughout the year. 2,500′-3,500′.

633. H. rotundifolia Roxb.
Flowers April. In moist situations ; 4,000′-8,000′.

634. H. asiatica L.
Flowers and fruits December to January. 4,000′.

278. Bupleurum L.

635. B. mucronatum. W. & A.
Flowers and fruits December. 3,000′-4,000′.

636. B. distichophyllum W. & A. A. C.
"At about 3,300′."

279. Pimpinella L.

637. P. Heyneana Wall.
Flowers and fruits December. 1,200′-6,400′.

638. P. Leschenaultiana DC. No. 3571.
Flowers April. In swampy soil in grass lands ; 1,000 .

639. P. Candolleana W. & A.
Flowers and fruits January and May. In grass lands ; 4,200′-7,000′

640. P. monoica Dalz.
Flowers and fruits December. 4,000′.

280. Peucedanum L.

641. P. anamallayanum C. B. Clarke.
Flowers May. At Periakulam, 5,300′.

281. Heracleum. L.

642. H. Sprengelianum W. & A. No. 3,570′.
Flowers and fruits April. In grass lands ; 7,000′.

282. Coriandrum L.

643. C. sativum L.
Run wild. Flowers August. 3,000′.

LXII. ARALIACEAE.

283. Polyscias Forst.

644. P. acuminata Seem. No. 3734.
Fruits April, 7,000′.

284. Heptapleurum Gaertn.

645. H. rostratum Bedd. F. S.
5,000′-6,000′.

646. H. racemosum Bedd. F. S. and A. C.
3,000′-7,000′.

647. H. veunlosum Seem. No. 3366. Muduva *Moduvan,*; Pulaiya *Aiveril.*
Flowers May to June. 1,700′-2,800′.

648. H. Wallichianum C.B. Clarke Nos. 3409, 3732.
Flowers April to May. In evergreen forest; 3,000′-7,000′.

LXIII. CORNACEÆ.

285. Alangium Lam.

649. A. Lamarckii Thw. Tamil *Alingi.*
Flowers December to February; fruits hot weather. 1,000′-1,300′.

286. Mastixia. Bl.

650. M. arborea C. B. Clarke. A. C.
3,000′.

LXIV. CAPRIFOLIACEÆ.

287. Viburnum.

651. V. punctatum Ham.
Flowers and fruits December. 3,000′-4,000′.

288. Lonicera. L.

652. L. ligustrina Wall. No. 3408.
Flowers May. Periakulam; 6,200′

LXV. RUBIACEAE.

289. Adina Salisb.

653. A. cordifolia Hook. f. Tamil *Manjakadambai.*
Flowers November to December; fruits January to February. In deciduous forest; 1,000′-3,500′. Growing to a very large tree in the moist western region.

290. Mytragyne Korth.

654. M. parvifolia Korth. (*Stephegyne parvifolia* Korth.) Tamil *Nirkadambai.*

Flowers May to June; fruits July. In the same localities as the last and replacing it near water. A very large tree at the lower elevations in the moist forests.

655. M. tubulosa Korth. (*Stephegyne tubulosa* Hook. f.) A.C. "At Udumanparai, about 3,000′."

291. Hymenodictyon Wall.

656. H. excelsum Wall. No. 3764. Tamil *Perunjoli.*

Flowers in the rains; fruits November to December. 1,300′-3,000′.

292. Wendlandia Bartt.

657. W. Notoniana Wall.

Flowers January to March. In open deciduous forest and scattered in grass land; 3,000′-4,500′.

293. Neurocalyx Hook.

658. N. Wightii Arn. No. 3380.

Flowers April to May. In evergreen forest; 3,000′-3,500′.

294. Hedyotis L.

659. H. articularis Br.

Flowers April. Thanakumalai peak; 8,200′.

660. H. stylosa Br.

Flowers and fruits March to April. In grass lands; over 7,000′.

661. H. swertioides Hook. f. A.C.

4,000′.

662. H. buxifolia Bedd. No. 3558.

Flowers and fruits April. Thanakumalaislopes; 8,100′.

663. H. auricularia L.

Flowers April to May, October and December; fruits December. 1,400′-3,000′.

664. H. nitida W. & A. No. 3456.
Flowers July. Mount Stuart; 2,200′.

295. Oldenlandia L.

665. O. corymbosa L.
Flowers and fruits September and December; 1,000′-3,000′.

666. O. herbacea Roxb. (*O. Heynii* Br.)
Flowers and fruits April. 1,700′-3,000′.

667. O. umbellata L.
Flowers and fruits December to February. 1,200′-3,000′.

668. O. Wightii Hook. f.
Flowers and fruits December to May. 2,000′-3,000′.

669. O. dichotoma Koen. No. 3284.
Flowers and fruits December to February. Corolla pale blue. 2,500′—3,300′.

670. O. nudicaulis Roth. Nos. 3481, 3645.
Flowers and fruits September to December. In the moist deciduous forests in the West; 1,700′—2,000′.

296. Anotis DC.

671. A. Leschenaultiana W. & A.
Flowers December to April; fruits January to April. 3,500′—7,000′.

672. A. Rheedii W. & A. No. 3496.
Flowers and fruits September to October. In the moist western region; 3,000′—4,000′.

673. A. quadrilocularis Thw. 3495.
Flowers and fruits October. In the moist western region; 4,000′.

674. A. monosperma W. & A. No. 3296.
Flowers January, 4,000′.

297. Ophiorrhiza L.

675. O. Mungos L. No. 3256.
Flowers and fruits January, April and July. 2,000′—4,000′.

676. O. Harrisiana Heyne. A.C.
Paralai, 4,000′.

677. O. hirsutella Wight. No. 3277.
Flowers and fruits January to February and May. In evergreen forest; 3,000′—4,500′.

678. O. pectinata Arn. No. 3257.
Fruits January. In and near evergreen forest; 2,800′—4,000′.

679. O. sp. ? PROX. *rosea*. No. 3381.
Flowers April. In evergreen forest; about 3,200′.

298. Mussænda L.

680. M. frondosa L.
Flowers and fruits at all seasons. 1,500′—6,400′.

299. Acranthera Arn.

681. A. anamallica Bedd. No. 3246.
Flowers and fruits January, March to April and August. In evergreen forest; 3,000′—4,500′.

300. Tarenna Gaertn.

682. T. zeylanica Gaertn. (*Webera corymbosa* Willd.) Tamil *Tarenni*.
Flowers December to May; fruits rains; 1,500′—3,000′.

301. Randia L.

683. R. uliginosa DC. Kadir *Malai-nochi*.
Fruits October to December. Confined to swampy localities in the deciduous forests in the West; 1,600′—1,900′.

684. R. dumetorum Lam. Tamil *Karai*.
Flowers April to June and November; fruits December to March. 1,000′—3,500′.

685. R. malabarica Lam.
Flowers May. 1,500′—3,000′.

686. R. Gardneri Thw.
Flowers April. In evergreen forest; about 3,000′.

687. R. rugulosa Thw.
Flowers April. In evergreen forest; about 4,000′.

302. Gardenia L.

688. G. gummifera L.
In deciduous forest; about 3,000′.

689. G. latifolia Ait. Tamil *Malan-karai.*
Flowers May to June. On rocky hill-sides; 1,700′—2,500′.

303. Diplospora DC.

690. D. apiocarpa Dalz. A. C.
In evergreen forest at 4,000′.

304. Knoxia L.

691. K. corymbosa L.
Flowers April to December; fruits December to March. 2,000′—6,500′.

692. K. Heyneana DC.
Flowers and fruits December. 2,600′.

693. K. Wightiana Wall. A. C.
At about 3,000′.

305. Plectronia L.

694. P. Wightii T. Cooke. (*Canthium umbellatum* Wight.) A. C.
In evergreen forest at about 4,000′.

695. P. didyma Gaertn. (*Canthium didymum* Roxb.) Tamil *Sulundu.*
Flowers December to January; fruits May. 1,000′—2,000′.

696. P. parviflora Bedd. (*Canthium parviflorum* Lam.) No. 3448. Tamil *Madukarai*.

Flowers May to June; fruits September to October. 1,100′—1,600′.

697. P. neilgherrense Wight. (*Canthium neilgherrense* Wight.) A. C. In evergreen forest, 4,000′.

698. P. travancorica Bedd. (*Canthium travancorium* Bedd.) A. C. "3,000′."

306. Vangueria Juss.

699. V. spinosa Roxb.
In evergreen forest; up to 6,000′. Not common.

307. Ixora L.

700. I. lanceolaria Coleb.
Flowers April to May; fruits June. In evergreen forest; 4,000′—5,000′.

701. I. Notoniana Wall. No. 3348.
Flowers April. 6,500′.

702. I. parviflora Vahl.
Flowers February; fruits May. 1,000′–2,500′.

703. I. nigricans Br. No. 3248.
Flowers December to January. In evergreen forest; 2,400′—4,000′.

308. Pavetta L.

704. P. indica Lam.
Flowers April. In evergreen forest; 4,000′.
VAR. **tomentosa.**
Flowers April. In moist deciduous forest; 1,700′.

705. P. hispidula W. & A.
Flowers January to March. In evergreen forest; 4,000′—4,500′.

309. Coffea L.

706. C. arabica L.
Planted, as also one or two other species yielding commercial coffee. Occasionally springing up from seed voided in the jungle by jackals, squirrels, monkeys, etc.

707. C. Wightiana W. & A.
Flowers May to June and November. Up to 1,500′.

310. Morinda L.

708. M. tinctoria Roxb. Tamil *Sayamaram*.
Flowers hot season; fruits rains and cold season. 900′—1,800′.

311. Psychotria L.

709. P. Thwaitesii Hook. f.
Flowers May. In dense evergreen forest; 3,000′—4,000′.

710. P. subintegra W. & A.
Flowers May and December. Along streams; 2,000′—3,000′.

711. P. truncata Wall. A. C.
3,500′—4,500′.

712. P. elongata Wight. Nos. 3353, 3604.
Flowers April to May. In dense evergreen forest; 4,000′—4,500′.

713. P. anamallayana Bedd. No. 3578.
Flowers May. In dense evergreen forest; 3,000′—4,000′.

312. Chasalia Comm.

714. C. curviflora Thw.
Flowers March to April. In dense evergreen forest; 4,000′—6,500′.

313. Geophila Don.

715. G. reniformis Don. No. 3622.
Flowers July; fruits December. In dense evergreen forest at Karianshola; 2,300′.

314. Lasianthus Jack.

716. L. Blumeanus Wight. A. C.
In evergreen forest at about 4,000′.

717. L. ciliatus Wight.
Fruits January. In dense evergreen forest; 4,000′.

718. L. acuminatus Wight.
Flowers April to May; fruits May. In dense evergreen forest; 4,500′—7,000′.

315. Saprosma Bl.

719. S. indicum Dalz. No. 3809. Kadir *Pi-nari.*
Flowers May. In dense evergreen forest; at about 3,000′.

316. Spermacoce L.

720. S. stricta L. No. 3649.
Flowers and fruits October to December. 2,200′—3,500′.

721. S. hispida L.
Flowers and fruits at all seasons. 900′—2,000′.

317. Rubia L.

722. R. cordifolia L.
Flowers October to January; fruits hot season. 2,200′—4,500′.

LXVI. VALERIANACEÆ.

318. Valeriana L.

723. V. Moonii Arn. No. 3802.
Flowers April to May. In grass lands; 7,000′.

724. V. Hookeriana W. & A.
Flowers April to May. In grass lands; 6,000′—7,500′.

725. V. Leschenaultii DC. A. C.
4,000′.

726. V. Beddomei C. B. Clarke.
Flowers April to May. 6,000′—6,500′.

LXVII. DIPSACEÆ.

319. Dipsacus L.

727. D. Leschenaultii Coult.
Fruits March to April. In grass lands; 6,000′—8,000′.

LXVIII. COMPOSITÆ.

320. Erechthites Raf.

728. E. valerianaefolia DC.
Flowers and fruits May to June. Run wild in the coffee and tea estates at about 4,000′.

321. Centratherum Cass.

729. C. reticulatum Benth.
Flowers and fruits May. 4,500′.

730. C. molle Benth. Nos. 3241, 3337.
Flowers and fruits January to April. 4,500′—6,500′.

731. C. courtallense Benth. No. 3630.
Flowers August. Mount Stuart; 2,200′.

322. Vernonia Schreb.

732. V. peninsularis Clarke. No. 3326 *a*.
Flowers and fruits April. In the grass lands at the edges of patches of evergreen forest; 7,000′—7,500′.

733. V. Bourneana W. W. Smith. Nos. 3326*b*, 3327.
Flowers and fruits April. In grass lands; 7,000′—7,500′.

734. V. cinerea Less.
Flowers and Fruits July to December. 1,000′—2,500′.

735. V. divergens Benth.
Flowers and fruits December to January and May. 2,200′—4,500′.

736. V. anthelmintica Willd.
Flowers and fruits November to February. 1,200′—3,000′.

737. V. monosis Benth. (*V. arborea* Ham).
Flowers and fruits March to April. In and near evergreen forest; 3,000′—4,500′.

323. Elephantopus L.

738. E. scaber L.
Flowers September and December; fruits December. 1,200′—2,500′.

324. Adenostemma Forst.

739. A. viscosum Forst.
Flowers and fruits December to January. 2,600′—4,100′.

325. Ageratum L.

740. A. conyzoides L.
Flowers and fruits September to December. 1,000′—4,000′

326. Dicrocephala DC.

741. D. chrysanthemifolia DC. (including *D. latifolia* DC.)
Flowers and fruits April and December. 3,000′—7,000′.

327. Conyza Less.

742. C. stricta Willd.
Flowers May, August and December. 2,800′—4,500′.

328. Blumea DC.

743. B. amplectens DC. VAR. **arenaria** Hook. f. No. 3522.
Flowers and fruits December. In the West; 1,200′.

744. B. Wightiana DC.
Flowers June. In the dry eastern region; 1,200′.

745. B. lacera DC.
Flowers and fruits April to May. In evergreen forest; 4,000′.
VAR. **glandulosa.**
Flowers and fruits February. At the foot of the hills.

746. B. hieracifolia DC.
Flowers April. In grass lands; above 6,000′.

747. B. membranacea DC.
Flowers and fruits June. In the dry eastern tract; 1,200′.

748. B. oxyodonta DC.
Flowers November to December. Mount Stuart; 2,200′.

749. B. eriantha DC. No. 3855′.
Flowers January. Mount Stuart; 2,200′.

750. B. Malcolmii Hook. f.
Flowers March. In grass lands; 7,500′.

751. B. malabarica Hook. f.
Flowers and fruits April. In evergreen forest on the Travancore frontier; 6,500′.

752. B. spectabilis DC.
Flowers December to January; fruits April. In the western moist region; 1,800′—2,200′.

329. Laggera Sch.-Bip.

753. L. alata Sch.-Bip.
Flowers January; fruits April. 2,300′—7,000′.

754. -. pterodonta Benth.
Fruits April. 4,000′.

330. Pluchea Cass.

755. P. tomentosa DC.
Flowers and fruits May and September. In the dry eastern region; 1,100′.

331. Sphæranthus L.

756. S. amaranthoides Burm. No. 3691.
Flowers January. In wet places; 1,000′.

757. S. indicus L.
Flowers February to June; fruits in the rains. 900′—2,000′.

332. Anaphalis DC.

758. A. Beddomei Hook.f. No. 3242.
Flowers January and April. 4,000′—7,500′.

759. A. araneosa DC.
Flowers April. In grass lands; 7,500′.

760. A. oblonga DC.
Flowers December and April. 3,500′—7,500′.

761. A. aristata DC. Nos. 3274, 3295.
Flowers December to January. 4,500′.

762. A. Meeboldii W. W. Smith. No. 3303.
Flowers March to April; fruits April to May. This little plant, discovered by Mr. Herr. A. Meebold in the Travancore hills in 1910, is abundant on the grassy ridge running from Koramparai to Thanaku peak and on the slopes of the latter peak between 7,700′ and 8,200′. This is above the general line of tree growth.

763. A. brevifolia DC. A. C.
4000′.

764. A. neelgherryana DC. A. C.
4000′.

333. Gnaphalium L.

765. G. indicum L. No. 3693.
Flowers and fruits February, April, September and December. 1,000′—6,500′.

766. G. luteo-album L. A. C.
3,000′—6,000′.

334. Flaveria Juss.

767. F. Contrayerba Pers.
Flowers and fruits throughout the year. 900′—1,300′. Quite acclimatised.

335. Vicoa Cass.

768. V. auriculata Cass.
Flowers May and December. 900′—3,000′.

336. Pulicaria Gaertn.

769. P. Wightiana Clarke.
Flowers June and December. 900′-1,200′

337. Xanthium L.

770. X. Strumarium L.
Flowers January; fruits September. In the dry eastern region; 1,000′—1,500′.

338. Siegesbeckia L.

771. S. orientalis L.
Flowers and fruits April, October and December. 1,800′—2,800′.

339. Eclipta L.

772. E. erecta L. (*E. alba* Hassk).
Flowers and fruits May to July. 1,000′—2,500′.

340. Blainvillea Cass.

773. B. rhomboidea Cass. (*B. latifolia* DC.)
Flowers July, November—December; fruits December. 1,000′—3,000′

341. Wedelia Jacq.

774. W. urticaefolia DC.
Flowers October. 4,000′.

342. Spilanthes L.

775. **S. Acmella** L.
Flowers and fruits December to April. 3,000′—7,000′.

343. Bidens L.

776. **B. pilosa** L.
Flowers and fruits December. 3,000′-4,000′.

344. Galinsoga Ruiz. & Pav.

777. **G. parviflora** Cav.
Flowers and fruits December. 3,000′.

345. Tridax L.

778. **T. procumbens** L.
Flowers and fruits throughout the year. 900′—3,000′.

346. Cosmos Cav.

779. **C. caudatus** H. B. K. A.C.
Run wild, 3,000′.

347. Artemisia L.

780. **A. parviflora** L.
Flowers December and May. 3,000′—7,000′.

348. Gynura Cass.

781. **G. nitida** DC.
Flowers August and October. In the moist western region; 2,000′.

349. Emilia Cass.

782. **E. sonchifolia** DC.
Flowers December. 1,000′-3,000′.

783. **E. zeylanica** Clarke. No. 3338.
Flowers April. In grass lands. 7,000′.

350. Notonia DC.

784. N. grandiflora DC. Tamil *Mosakathu-thalai.*
Flowers May and August. On dry rocky slopes; 2,000′—3,000′.

785. N. Walkeri Clarke.
Fruits April. Edges of evergreen forest; 6,400′.

351. Senecio L.

786. S. nilgheryanus DC.
Flowers and fruits April to May. 6,500′.

787. S. corymbosus Wall.
Fruits April to May. 7,000′.

788. S. scandens Don.
Flowers and fruits January and April. 4,000′.

352. Cnicus L.

789. C. Wallichii DC.
In grass lands; 7,000′ and above. Not very common.

353. Dicoma Cass.

790. D. tomentosa Cass.
Flowers and fruits June and November to December. At the foot of the hills, especially in the drier tracts.

354. Crepis L.

791. C. japonica Benth.
Flowers May. Torakadavu valley; 3,000′.

792. C. acaulis Hook. f.
Flowers April to May. In open grass lands; 6,000′.

355. Lactuca L.

793. L. runcinata DC. (*L. Heyneana* DC.)
Flowers and fruits May and December. At the foot of the hills.

356. Sonchus L.

794. S. arvensis L.
Flowers and fruits January. 4,000′.

LXIX. CAMPANULACEÆ.

357. Lobelia L.

795. L. trigona Roxb.
Flowers and fruits April to May. 3,000′—7,500′.

796. L. trialata Ham. VAR. **lamiifolia** C. B. Clarke. No. 3336.
Flowers and fruits March to April. 7,500′.

797. L. nicotianæfolia Heyne.
Flowers December to March. 3,000′—4,000′.
VAR. **trichandra.**
Flowers and fruits May. In the eastern half; 4,500′.

358. Cephalostigma A. DC.

798. C. Schimperi Hochst.
Flowers and fruits October to February. 2,000′—3,500′.

359. Wahlenbergia Schrad.

799. W. gracilis DC.
Flowers April to May. In open grass lands; 3,500′—8,000′.

360. Sphenoclea Gaertn.

800. S. zeylanica Gaertn. No. 3501.
Flowers and fruits October. In swamps in the Tekkadi forest in the extreme west; 1,800′.

361. Campanula Linn.

801. C. Alphonsi Wall. No. 3728.
Flowers and fruits April. Under shelter of rocks on a grassy slope; 7,300′.

802. C. fulgens Wall.
Flowers May. On Ibex Hill; 5,000′.

LXX. VACCINIACEÆ.

362. Vaccinium L.

803. V. nilgherrense Wight. No. 3298. Tamil *Arali.*
Flowers February to March. 2,800′—4,000′.

804. V. Leschenaultii Wight.
Flowers March; fruit April. 4,000′—7,500′

LXXI. ERICACEÆ.

363. Gaultheria L.

805. G. fragrantissima Wall.
Flowers March to April; fruits May. 6,000′—8,000′.

364. Rhododendron L.

806. R. arboreum Sm. Muduva *Alanji.*
Flowers and fruits March to May. 6,000′—8,000′.

LXXII. PLUMBAGINACEÆ.

365. Plumbago L.

807. P. zeylanica L.
Flowers and fruits throughout the year. 1,000′—1,400′.

LXXIII. PRIMULACEÆ.

366. Lysimachia L.

808. L. Leschenaultii Duby.
Flowers and fruits April to May. 5,000′—7,800′.

809. L. deltoides Wight.
Flowers and fruits April to May. 6,000′—7,800′.

367. Centunculus L.

810. C. tenellus Duby. No. 3219.
Flowers and fruits September to December. 2,500′—4,500′.

LXXIV. MYRSINACEÆ.

368. Mæsa Forsk.

811. M. Perottetiana DC. (*M. indica* Wall.)
Flowers and fruits throughout the year. 3,000′—4,000′.

369. Myrsine L.

812. M. capitellata Wall. A.C.
In evergreen forest at about 4,000′.
Var. **lanceolata** Wall. No. 3566.
Fruits April. In evergreen forests ; 6,500′.

370. Embelia Burm.

813. E. Ribes Burm.
In and about evergreen forest; 4,000′.

814. E. Tsjeriam-cottam R. & S. (*E. robusta* Roxb. in part). No. 3466.

Flowers August. In the moist deciduous forests. 1,400′—3,000′.

371. Ardisia Sw.

815. A. paniculata Roxb. A.C.

816. A. amplexicaulis Bedd. No. 3714.
Flowers April to May. In dense evergreen forest; 3,000′—6,000′.

817. A. pauciflora Heyne.
Flowers March to May. In dense evergreen forest; 3,000′—5,000′.

818. A. rhomboidea Wight. No. 3331.
Flowers and fruits April to May. In dense evergreen forest; 2,000′—6,500′. Common.

819. A. ~~sp. nov~~. (Ramaswami). No. 3299.
Flowers March. In dense evergreen forest at Iyerpadi at about 4,000′. Not yet named, was referred to Kew by the late Mr. Ramaswami. Close to *A. pauciflora* Heyne but differing as follows:—Cymes umbellate, dense; corolla pink, 1—3″ diameter; leaves black dotted and punctate.

372. Antistrophe A. DC.

820. A. serratifolia Hook. f. No. 3589.
Flowers and fruits May. In dense evergreen forest; 4,000′—4,500′.

LXXV. SAPOTACEÆ.

373. Chrysophyllum L.

821. C. Roxburghii G. Don. A.C.
In evergreen forest; 5,000′.

374. Isonandra Wight.

822. I. Perottetiana Wight. No. 3727.
Flowers April. In evergreen forest; 6,500′.

823. I. lanceolata Wight. No. 3716.
Flowers and fruits April. In dense evergreen forest, 4,000′.
VAR. **anfractuosa** C. B. Clarke.

Flowers April. In dense evergreen forest ; 2,000′—4,000′.

375. **Palaquium** Blanco.

824. **P. ellipticum** Engl. (*Dichopsis elliptica* Benth.) Tamil *Illupai.*

Flowers April to May ; fruits December to January. In dense evergreen forest ; 3,000′—4,000′.

376. **Bassia** L.

825. **B. latifolia** Roxb.

Flowers hot season. In the western half ; 1,800′—2,000′. Not common.

826. **B. malabarica** Bedd. Kadir *Kat-illupai.*

Fruits May. Along streams ; 1,800′—4,000′.

377. **Mimusops** L.

827. **M. Elengi** L. No. 3556.

Flowers April ; 2,600′.

828 **M. Roxburghiana** Wight. F. S.

At the foot of the hills.

829. **M. hexandra** Roxb. No. 3436. Tamil *Kannupalai.*

Flowers March to May ; new leaves February ; fruits July. On dry rocky hills in the eastern portion ; 1,300′—1,600′.

LXXVI. EBENACEÆ.

378. **Maba** Forst.

830. **M. buxifolia** Pers. Nos. 3416, 3426.

Flowers May. 4,000′.

379. **Diospyros** L.

831. **D. pruriens** Dalz. F. S.

832. D. montana Roxb. Tamil *Vakkanai.*
Flowers May; fruits August. 1,000′-3,000′.

833. D. Embryopteris Pers. No. 3704. Pulaiya *Karumaram.*
Flowers April. In evergreen forest; 4,000′.

834. D. ovalifolia Wight. No. 3717.
Flowers June. 1,100′ (Beddome in F. S. 1000′-4,000′).

835. D. Ebenum Roem. No. 3616. Tamil *Pallapaimaram.*
Fruits rains. Found both in the dry eastern region at 1,100′ and in evergreen forest at about 4,000′.

836. D. assimilis Bedd. F. S. and A. C.

837. D. sylvatica Roxb. A. C.

At about 4,000′.

838. D. microphylla Bedd. F. S.
In dense forest up to 3,000′.

839. D. oocarpa Thw. A. C.
At Udumanparai.

840. D. melanoxylon Roxb. No. 3429.
Flowers May; fruits May and November. 1,200′-1,700′.

841. D. Gardneri Thw. A. C.
At Udumanparai.

842. D. insignis Thw. F. S.
In dense forests; 2,000′-3,000′.

843. D. nilagirica Bedd. A. C.
At Udumanparai.

844. D. ramiflora Roxb.? F. S.
A species of *Diospyros* mentioned by Beddome may be this or *D. embryopteris* Pers.

845. D. paniculata Dalz. F. S.
? Neliampatti Ghat.

LXXVII. STYRACEAE.

380. Symplocos L.

846. S. spicata Roxb.
Flowers March to May. 4,000′-8,000′.

847. S. anamallayana Bedd. Nos. 3312, 3562.
Flowers March to April. 7,500′ (Beddome F. S. 5,000′-6,000′).

848. S. Gardneriana Wight. F. S. and A. C.
4,000′-6,000′.

849. S. rosea Bedd. F. S.
Moist woods; 2,000′-4,000′.

850 S. obtusa Wall. F. S.
" 5,000′-7,000′."

851. S. pendula Wight. Nos. 3344, 3799.
Flowers April. 6,000′-7,500′. (Beddome F. S. 5,000′-6,000′).

LXXVIII. OLEACEÆ.

381. Jasminum L.

852. J. Sambac Ait.
Flowers December. 3,000′.

853. J. Rottlerianum Wall.
Flowers January to March. 4,000′.

854. J. rigidum Zenk.
Flowers February. 2,800′.

855. J. trichotomum Heyne.
Flowers May and August. 1,200′-1,600′.

856. J. flexile Vahl. Tamil *Katumallai.*
Flowers December to February; fruits February. 1,000′-2,800.

857. J. calophyllum Wall. No. 3233.
Flowers December. 2,800′.

858. J. bignoniacum Wall. (*J. humile* L. in part).
Flowers April. 7,500′.

382. Linociera Sw.

859. L. malabarica Wall. No. 3794.
Flowers and fruits February to March. 1,700′.

860. L. intermedia Wight. No. 3332.
Flowers and fruits April. 6,500.′ (Beddome F. S. Torakadaon banks, 5,000′).

383. Olea L.

861. O. glandulifera Wall. No. 3707.
Flowers April. In evergreen forest on Ibex Hill; 4,800′.

862. O. dioica Roxb. No. 3551.
Flowers December to March. 2,500′-3,500′.

384. Ligustrum L.

863. L. Walkeri Dcne. No. 3145.
Flowers May. 4,500′.

864. L. robustum Bl.
Flowers April to May and December; fruits December. 3,000′-6,500′.

865. L. Roxburghii Clarke.
Flowers April. 4,000′-6,500′.

866. L. neilgherrense Wight.
Flowers April; fruits January. 3,500′-6,500′.

VAR. **obovata** Dcne.
Flowers May. 6,300′.

867. L. Perottetii A. DC. F. S.

385. Myxopyrum Bl.

868. M. smilacifolium Bl. F. B. I. Beddome!

LXXIX. SALVADORACEAE.

386. Salvadora L.

869. S. persica L. Tamil *Kunni.*
Flowers and fruits February. Along the foot of the hills.

387. Azima L.

870. A. tetracantha Lam.
Flowers September; fruits cold season. In the dry eastern region; 1,100′.

LXXX. APOCYNACEAE.

388. Carissa L.

871. C. Carandas L. Tamil *Kilakai.*
Flowers May; fruits rains. 1,000′-1,600′.

872. C. spinarum A. DC. Tamil *Kilakai.*
Flowers May to June; fruits rains. In the dry eastern tract; 1,000′.

873. C. suavissima Bedd. A. C.
At Udumanparai; 3,000′.

389. Rauwolfia L.

874. R. serpentina Benth.
Flowers April; fruits August to October. In the moist deciduous forests of the West; 1,800′-2,200′.

875. R. densiflora Benth. Nos. 3310, 3573.
Flowers March to May; fruits May. In evergreen forest; 4,000′-6,500′.

390. Lochnera. Reichb.

876. L. pusilla K. Schum (*Vinca pusilla* Murr.)
Flowers December to January; fruits December to June. A weed of cultivation; 900′-1,200′.

877. L. rosea. Reichb. (*Vinca rosea* L.)
Cultivated and run wild. Flowers at all seasons.

391. Alstonia L.

36 **878. A. scholaris** Br.
Not common. In the West; 1,200′-1,600′.

879. A. venenata Br. No. 3216.
Flowers December, April and June; fruits April. 2,000′-4,000′.

392. Plumeria L.

880. P. acutifolia Poir.
Planted. Flowers at most seasons. Up to 2,600′. Does not set fruit.

393. Ervatamia Stapf.

881. E. Heyneana T. Cobbe. (*Tabernæmontana Heyneana* Wall.) No. 3361. Kadir *Kodipalai*.
Flowers April. 1,900′.

882. E. coronaria Stapf. (*Tabernæmontana coronaria* Br.) No. 3378.
Flowers April to May. Common in dense evergreen forest; 2,000′-3,000′.

394. Holarrhena Br.

883. H. antidysenterica Wall.
Flowers April and July; fruits April and September. 1,000′-2,500′.

395. Parsonsia Br.

884. P. spiralis Wall. No. 3710.
Flowers April to May; fruits rains. In evergreen forest; 1,900′-4,500′.

396. Vallaris Burm.

885. V. Heynei Spreng. No. 3613.
Flowers June. Near water in the dry eastern tract; 1,000′.

397. Wrightia Br.

886. W. tinctoria Br. Tamil *Palai*.
Flowers June to October; fruits November to February; leafless February to March. 900′-3,000′.

887. W. tomentosa R. & S. No. 3359. Kadir *Palai*.
Flowers April. Moist forests; 3,000′.

398. Nerium L.

888. N. odorum Schrad.
Planted and run wild in the drier parts. Flowers December. 1,000′-1,500′.

399. Aganosma G. Don.

889. A. cymosa G. Don. A. C.
3,500′-4,500′.
VAR. **elegans**. No. 3424.
Flowers May. On the Travancore frontier in the eastern half; 2,300′.

400. Ichnocarpus Br.

890. I. frutescens Br.
Flowers April, September and December; fruits December. In dry deciduous forest and also in clearings in dense evergreen forest; 1,000′-4,000′.

LXXXI. ASCLEPIADACEÆ.

401. Hemidesmus Br.

891. H. indicus Br.
Flowers July, September and December. 2,000′—4,000′.

402. Cryptolepis Br.

892. C. Buchanani R. & S.
Flowers May; fruits December. 1,200′-4,000′.

403. Utleria Bedd.

893. U. salicifolia Bedd. No. 3394.
Flowers May. In rocky places; 3,000′-5,000′. A shrub, not a tree as described in the F.B.I.; not exceeding 6′ in height with a girth at ground level of 1½′.

404. Decalepis W. & A.

894. D. Hamiltonii W. & A. F. B. I. & A. C.

405. Secamone Br.

895. S. emetica Br.
Flowers July. Up to 1,500′.

406. Calotropis Br.

896. C. gigantea Br. Tamil *Erakalli*.
Flowers and fruits throughout the year. 900′-2,500′. Much used as a green manure in wet cultivation.

407. Dæmia Br.

897. D. extensa Br.
Flowers October to January; fruits January. 900′-2,000′.

408. Cynanchum L.

898. C. alatum W. & A. No. 3282.
Flowers January. 3,000′.

899. C. Callialata Ham. No. 3666.
Flowers December. 2,800′.

409. Sarcostemma Br.

900. S. brevistigma W. & A.
Flowers May. 3,000′.

901. S. intermedium Dcne.
Flowers cold season; fruits June. 900′-1,200′.

410. Gymnema Br.

902. G. sylvestris Br. No. 3760.
Flowers August and November to December. 1,000′-1,400′.

903. G. tingens W. & A. F.B.I.
Beddome! 4,000′.

411. Marsdenia Br.

904. M. volubilis T. Cooke. (*Dregea volubilis* Benth.)
Flowers November to December. 1,000′-3,000′.

412. Hoya Br.

905. H. pauciflora Wight.
Flowers August. 4,500′.

906. H. Wightii Hook. f. No. 3567.
Flowers April, 6,500′.

907. H. pendula Wight. No. 4033.
Flowers December. At the foot of Mount Stuart. 2,000′.

413. Tylophora Br.

908. T. tenuis Bl. No. 3557.
Flowers April and October. 1,800′-7,500′.

909. T. rotundifolia Ham. F. B. I. Beddome!

414. Leptadenia Br.

910. L. reticulata W. & A.
Flowers January; fruits June. 900′-1,200′.

415. Ceropegia L.

911. C. pusilla Wight. F. B. I.
Wight! 7,000′-8,000′.

912. C. fimbrifera Bedd. F. B. I.
Beddome! Rocky places; 3,000′-4,000′.

913. C. juncea Roxb.
Flowers January; fruits June. 900′-1,100′.

914. C. elegans Wall. No. 3407.
Flowers May and October. 2,300′-6,300′.

915. C. tuberosa Roxb.
Flowers September. Vengoli peak; 3,400′.

916. C. intermedia Wight. F. B. I.
Beddome! 2,500′.

917. C. hirsuta W. & A.
Flowers September. 1,600′.

918. C. brevicollis Hook. f. No. 3654.
Flowers October. Karianshola; 2,400′.

919. C. ensifolia Bedd. F. B. I.
Beddome! 3,000′-3,500′.

416. **Caralluma** Br.

920. **C. fimbriata** Wall. No. 3611.
Flowers January and June. 1,000'-1,600'.

417. **Boucerosia** Wall.

921. **B. umbellata** W. & A.
Flowers May to June. 1,000 -2,000'.

LXXXII. LOGANIACEÆ.

418. **Buddleia** L.

922. **B. asiatica** Lour.
Flowers May ; fruits May to June and December. 2,000'-3,000 .

419. **Fagræa** Thunb.

923. **F. obovata** Wall.
Flowers March to April ; fruits October. In evergreen forest ; 3,000'-4,000'.

420. **Strychnos** L.

924. **S. colubrina** L. A. C.
At Udumanparai.

925. **S. Rheedii** C. B. Clarke. No. 3579.
Flowers May. In dense evergreen forest ; 3,000'-4,000'.

926. **S. Nux-vomica** L. Tamil *Ettimaram*.
Flowers April ; fruits May to September. 900'-1,600'.

927. **S. potatorum** L. f. Tamil *Tetamaram*.
Flowers and fruits May to June. 900'-2,500'.

421. **Gardneria** Wall.

928. **G. ovata** Wall.
Flowers April. In evergreen forest. 6,500.'

LXXXIII. GENTIANACEÆ.

422. Exacum L.

929. E. bicolor Roxb. No. 3235.
Flowers December. 4,500′.

930. E. atropurpureum Bedd. A. C.
Var. **anamallayanum** Bedd. No. 3314.
Flowers March to May. Very common along stream banks in the open grass lands; 6,500′-8,000′. A very beautiful species when in flower.

931. E. Wightianum Arn.
Flowers January. 4,500′.

932. E. pumilum Griseb.
Flowers October. 4,500′.

933. E. Lawii Clarke. No. 3488.
Flowers September to November. 3,300′-4,000′.

934. E. pedunculatum L. (*E. petiolare* Griseb.). No. 3479.
Flowers August to December; fruits November to January. In the moist deciduous western forests; 1,800′-2,200′.

423. Hoppea Willd.

935. H. fastigata Clarke.
Flowers and fruits December. 2,000′-3,500′.

424. Canscora Lam.

936. C. diffusa Br.
Flowers October. In the moist deciduous western forests; 2,000′.

937. C. sessiliflora R. & S. No. 3784 a.
Flowers November. In the western half; 1,800′.

938. C. decussata R. & S.
Flowers September and December. 1,800′-3,000′.

939. C. perfoliata Lam. No. 3215.
Flowers October to December. 2,500′-3,800′.

940. C. Wallichii Clerke. No. 3784.
Flowers and fruits December to May. 1,500′-3,000′.

425. Gentiana L.

941. G. quadrifaria Bl. Nos. 3315, 3316.
Flowers April. 4,500′-7,500′.

942. G. pedicellata Wall. VAR. **Wightii** Kusneg.
Flowers March to April. Above 7,000′.

426. Swertia L.

943. S. affinis Clarke.
Flowers May. In open grass lands; 4,000′.

944. S. corymbosa Wight.
Flowers September and December. 3,000′-4,000′.

LXXXIV. HYDROPHYLLACEÆ.

427. Hydrolea L.

945. H. zeylanica Vahl. No. 3507.
Flowers and fruits November. Seen only in the Tekkadi forest in the West in swampy situations; 1,900′.

LXXXV. BORAGINACEÆ.

428. Cordia L.

946. C. Wallichii G. Don. (*C. obliqua* Willd. VAR. *Wallichii* C. B. Clarke.)
Fruits during the rains. 1,200′-2,600′.

947. C. fulvosa Wight. No. 3747. Tamil *Naravali.*
Flowers May to July and November to December ; fruits August to September. 1,000′-2,000′.

429. Ehretia L.

948. E. lævis Roxb.
Flowers during the rains. 1,000′-1,300′.
VAR. **canarensis** A. C.
VAR. **indica** A. C.
Paralai.

949. E. buxifolia Roxb.
Flowers January. 1,200′-1,500′.

430. Coldenia L.

950. C. procumbens L.
Flowers and fruits June. In the dry eastern region at the lowest elevations.

431. Rhabdia Mart.

951. R. lycioides Mart.
Flowers December. Stream banks in the West ; 2,000′.

432. Tournefortia L.

952. T. Heyneana Wall. A. C.
At Udumanparai.

953. T. reticosa Wight. No. 3244.
Flowers January to May ; fruits March to May. In evergreen forest in glades ; 3,500′-4,300′.

433. Heliotropium L.

954. H. zeylanicum Lam.
Flowers January. At the foot of the hills.

955. H. ovalifolium Forst.
Flowers and fruits June. At the foot of the hills.

956. H. paniculatum R. Br. No. 3452.
Flowers and fruits January and July to August. 2,000′-4,000′.

957. H. bracteatum DC.
Flowers December to February. 3,000′.

958. H. marifolium Retz. No. 3437.
Flowers May. 1,500′.

434. Trichodesma Br.

959. T. indicum Br.
Flowers February, June and December. At low elevations.

960. T. zeylanicum Br.
Flowers and fruits December and March. 3,000′-4,000′.

435. Cynoglossum L.

961. C. furcatum Wall.
Flowers and fruits December and March, 3,000′-4,000′.

LXXXVI. CONVOLVULACEÆ.

436. Rivea Chois.

962. R. hypocrateriformis Chois.
Flowers September to January; fruits December to January. 900′-1,800′.

437. Argyreia Lour.

963. A. speciosa Sw. A. C.

964. A. sericea Dalz. & Gibs.
Flowers January and August. 2,200′-4,000′.

965. A. cuneata Ker. No. 3465.
Flowers May and August; fruits December to January. 2,200′-4,000′.

438. Lettsomia Roxb.

966. L. aggregata Roxb.
Flowers September to December. 1,200′-2,300′.

967. L. mysorensis Clarke.
Flowers and fruits December to January. 3,000′.

968. L. elliptica Wight.
Flowers October to January. 3,000′.

439. Calonyction Chois.

969. C. speciosum Chois. (*Ipomoea bona-nox* L. Var. *grandiflora* C. B. Clarke.)
Flowers October to February. 1,200′-2,800′.

440. Ipomœa L.

970. I. coccinea L.
Flowers August to December. Run wild and quite acclimatised near Mount Stuart; 1,200′-2,500′.

971. I. hederacea Jacq.
Flowers and fruits October to December. 1,000′-3,000′.

972. I. calycina Benth.
Flowers December. 1,900′.

973. I. barlerioides Benth.
Flowers and fruits January. Ibex Hill; 4,500′.

974. I. Batatas Lam.
Cultivated by the hill tribes, especially the Muduvas.

975. I. involucrata Beauv. (*I. pileata* Roxb.). No. 3517.
Flowers December. Near Mount Stuart; 2,000′.

976. **I. Wightii** Chois. No. 3291.
Flowers December to January. 1,000′-3,000′.

977. **I. bracteata** Wight. No. 4034.
Flowers December. In the western region; 2,000′-3,000.

978. **I. pes-tigridis** L. No. 3504.
Flowers July to December. 1,000′-3,000′.
VAR. **hepaticifolia** C. B. Clarke.
Flowers October to December. Near Mount Stuart; 2,000′-2,500′. Corolla blue-purple with a darker eye.

979. **I. eriocarpa** Bl. No. 3648.
Flowers September to October. 2,400′-3,000′.

980. **I. obscura** Br.
Flowers January, September and December. 1,000′-3,000′.

981. **I. sepiaria** Koen.
Flowers May. In the dry eastern region; 1,000′.

982. **I. staphylina** R. & A.
Flowers February. In the dry eastern region; 1,000′.

983. **I. campanulata** L. No. 3281.
Flowers December and March. 3,000′.

984. **I. pilosa** Sw.
Flowers and fruits June. In the dry eastern region; 1,200′.

985. **I. palmata** Forsk.
Flowers October to February. Along the foot of the hills.

986. **I. dasysperma** Jacq. No. 3687.
Flowers February. In the dry eastern region; 1,000′-1,200′. Appearing truly wild.

441. **Merremia** Dennst.

987. **M. hastata** Hall. f. (*Ipomoea angustifolia* Jacq.)
Flowers and fruits July to October. 2,300′.

988. **M. umbellata** Hall. f. (*Ipomoea cymosa* R. & S.)
Flowers February. 2,500′.

442. Operculina Silva Manso.

989. O. Turpethum Silva Manso. (*Ipomoea Turpethum* Br.)
Flowers December. At the foot of the hills in the West.

443. Hewettia W. & A.

990. H. bicolor Wight.
Flowers and fruits September to December. 1,500′-2,500′.

444. Evolvulus L.

991. E. alsinoides L.
Flowers and fruits throughout the year. 900′-4,000′.

445. Porana Burm.

992. P. racemosa Roxb. No. 3671.
Flowers December. 3,000′.

446. Cuscuta L.

993. C. reflexa Roxb. A. C.
Iyerpadi.

LXXXVII. SOLANACEÆ.

447. Solanum L.

994. S. nigrum L.
Flowers July ; fruits January. 2,200′-4,000′.

995. S. verbascifolium L.
Flowers and fruits September to December. 1,500′-3,000′.

996. S. pubescens Willd. Tamil *Sundai*.
Flowers May and December. 1,000′-1,500′.

997. S. giganteum Jacq.
Flowers December. 3,000′-4,000′.

998. S. ferox L. Tamil *Periya sundai.*
Flowers July. 2,000′-4,000′.

999. S. torvum Swartz. A. C.
4,000′.

1000. S. indicum L.
Flowers and fruits September to December. Along the foot of the hills.

1001. S. trilobatum L.
Flowers October. Along the foot of the hills.

448. **Lycopersicum** Mill.

1002. L. esculentum Mill.
Flowers and fruits January to April. Run wild along the road leading to the planting district; 2,000′—3,300′.

449. **Physalis** L.

1003. P. minima L.
Flowers and fruits rain to cold season. 2,000′—3,000′.

1004. P. peruviana. L. Tamil *Pottipallam.*
Flowers December to April. Run wild and well established in favourable places; 3,000′—6,500′.

450. **Withania** Pauq.

1005. W. somnifera Dunal.
Flowers June; fruits December. In the western end; 1,200′.

451. **Nicandra** Adans.

1006. N. physaloides Gaertn.
Flowers and fruits December to January. Run wild near hill villages and now well established; 3,000′.

452. Datura L.

1007. D. fastuosa L.
Flowers December; fruits January. 900′—400′.

LXXXVIII. SCROPHULARIACEÆ.

453. Linaria Juss.

1008. L. ramosissima Wall. No. 3227.
Flowers and fruits December to January. Slopes below Attakatti; 2,700′.

454. Stemodia L.

1009. S. viscosa Roxb.
Flowers June and December. 1,200′—1,600′.

455. Limnophila Br.

1010. L. conferta Benth. No. 3513.
Flowers and fruits December. 2,000′.

1011. L. gratissima Bl. No. 3821.
Flowers July. In the western region; 2,200′.

1012. L. gratioloides Br. No. 3694.
Flowers February. In damp places, at the foot of the hills.

456. Moniera B. Juss.

1013. M. cuneifolia Mich. (*Herpestes Moniera* H.B.K.)
Flowers throughout the year. 1,200′—3,000′.

457. Dopatrium Ham.

1014. D. nudicaule Ham. No. 3789.
Flowers February. In the dry eastern region, 1,000′.

1015. D. junceum Ham. No. 3477.
Flowers and fruits August to September. In the moist western region; 1,800′—2,500′.

458. Torenia L.

1016. T. asiatica L.
Flowers August to October. 1,800′—4,000′.

459. Vandellia L.

1017. V. hirsuta Benth.
Flowers and fruits May. Torakadavu valley; 3,000′.

1018. V. scabra Benth.
Flowers and fruits April and November to December. 1,800′—3,000′.

1019. V. sessiliflora Benth. No. 3635.
Flowers August. 2,200′.

1020. V. pedunculata Benth. No. 3372.
Flowers and fruits April. 1,800′.

460. Ilysanthes Rafin.

1021. I. hyssopioides Benth.
Flowers and fruits May and October to January. 1,000′—4,000′.

1022. I. parviflora Benth.
Flowers and fruits June. In the dry eastern region; 1,100′.

461. Bonnaya Link and Otto.

1023. B. brachiata Link and Otto.
Flowers and fruits July, October and December. 2,000′—3,000′.

1024. B. reptans Spreng.
Flowers and fruits during the rains. 3,000′.

1025. B. veronicæfolia Spreng.
Flowers May. 1,400′.

VAR. **verbenæfolia** Hook. f.
Flowers and fruits October. 1,800′.

462. Scoparia L.

1026. S. dulcis L.

Flowers and fruits throughout the year. In the moist western region; 1,200′—3,000′.

Apparently this little plant has spread from Serampore since 1845 (*Vide* the F.B.I., Vol. IV, page 289). It has extended practically throughout the Peninsula in suitable localities. I have met with it in Ganjam, Coimbatore and Malabar. It is increasing in the localities occupied in abundance. It may well become a pest.

463. Buchnera L.

1027. B. hispida Ham. No. 3669.

Flowers and fruits June and December. 3,000′.

464. Striga Lour.

1028. S. orobanchoides Benth. No. 3615.

Flowers June. In the dry eastern region; 1,100′. Parasitic on the roots of *Euphorbia antiquorum* L.

1029. S. densiflora Benth.

Flowers and fruits December. 1,200′.

1030. S. lutea Lour.

Flowers May, September and December. 3,000′—4,500′.

1031. S. euphrasioides Benth.

Flowers July and December. 100′—3,000′.

465. Sopubia Ham.

1032. S. delphinifolia G. Don.

Flowers and fruits throughout the year. 1,000′—3,200′.

1033. S. trifida Ham.

Flowers and fruits April to May and December. 3,000′—8,000′.

466. Micrargeria Benth.

1034. M. Wightii Benth.

Flowers and fruits January to February. In the dry eastern region; 1,000′—1,500′.

467. Pedicularis L.

1035. P. Perrottetii Benth. A.C.
Iyerpadi.

1036. P. zeylanica Benth.
In open grass lands. Above 5,000′.

LXXXIX. OROBANCHACEÆ.

468. Æginetia L.

1037. Æ. indica Roxb.
Flowers August to October; fruits September to December. In the moist, deciduous western forests; 1,800′-2,500′.

1038. Æ. pedunculata Wall.
Flowers September to November. 2,800′-4,000′.

469. Christisonia Gardn.

1039. C. tubulosa Benth. A.C.
In evergreen forest at about 3,700′.

1040. C. bicolor Gardn. No. 3731.
Flowers May. In evergreen forest; 6,500′.

XC. LENTIBULARIACEÆ.

470. Utricularia L.

1041. U. albo-coerulea Dalz. No. 3318.
Flowers April. 7,500′.

1042. U. arcuata Wight. No. 3221.
Flowers December. 3,500′.

1043. U. affinis Wight. A.C.

1044. U. caerulea L. No. 3222.
Flowers and fruits December. 3,500′.

1045. U. scandens Benj. A.C.

1046. U. Wallichiana Wight. No. 3320.
Flowers and fruits April to May and December to January. 2,000′—7,500′.

1047. U. nivea Vahl. (*U. racemosa* Wall.) No. 3319.
Flowers April. 7,500′.

VAR. **filicaulis** C.B. Clarke.
Flowers August and December. 2,000′-3,000′.

1048. U. striatula Sm. (*U. orbiculata* Wall.) No. 3234.
Flowers and fruits October to January. 3,000′-4,500′.

XCI. GESNERACEÆ.

471. Æschynanthus Jacq.

1049. Æ. Perrottetii A. DC.
Flowers September; fruits March to April. 2,500′-6,500′.

472. Didymocarpus Wall.

1050. D. Rottleriana Wall.
Flowers and fruits August. 1,500′.

VAR. **Wightii** C.B. Clarke.

Flowers and fruits May, June, August and December. 1,500′-3,000′.

1051. D. tomentosa Wight.
Flowers and fruits June. 2,200′-3,000′.

473. Klugia Schlecht.

1052. K. Notoniana A. DC.
Flowers April to May, August, October and December. 1,900′-4,200′.

474. Jerdonia Wight.

1053. J. indica Wight. F.B.I.

475. Isanthera Nees.

1054. I. permollis Nees. No. 3362.
Flowers April. In dense evergreen forest; 3,300′.

XCII. BIGNONIACEÆ.

476. Oroxylon Vent.

1055. O. indicum Vent. Kadir. *Valaongi.*
Tekkadi forests, in the extreme West; 2,000′.

477. Dolichandrone Seem.

1056. D. crispa Seem. Tamil *Chaklathipathirai* Pulaiya *Attukombbai.*
Flowers November to December; fruits June. 1,000′-1,300′.

478. Stereospermum Cham.

1057. S. chelonoides DC. Tamil *Pathirai* Pulaiya *Pambukaimaram.*
Flowers April to June; fruits December. 1200′-3000′.

479. Radermacheria Zoll. & Mor.

1058. R. xylocarpa K. Schum. (*Stereospermum xylocarpum* W.) Tamil *Vedangkurunai*; Pulaiya *Pambukai maram.*

Flowers April to May while leafless; new leaves towards the end of May; fruits cold season, sometimes remaining on the tree until the next blossoming. 1,200′-3,000′.

XCIII. PEDALIACEÆ.

480. Martynia L.

1059. M. diandra Glox.
Flowers and fruits throughout the year. 1,000′-3,000′.

481. Pedalium L.

1060. P. Murex L. Tamil *Anainerinji.*
Flowers June. At the foot of the hills.

482. Sesamum L.

1061. S. indicum DC.
Flowers September ; fruits January. Cultivated at the foot of the hills and run wild.

XCIV. ACANTHACEÆ.

483. Thunbergia L.

1062. T. fragrans Roxb.
Flowers May to January. 1,800′-3,000′.

484. Meyena Nees.

1063. M. Hawtayneana Nees. (*Thunbergia Hawtayneana* Wall.)
Vengoli peak ; 3,600′.

485. Tubiflora Gmel.

1064. T. acaulis O. Kuntze. (*Elytraria crenata* Vahl.)
Flowers December. In the dry eastern region ; 1,000′:

486. Staurogyne Wall.

1065. S. zeylanica O. Kuntze. (*Ebermaiera zeylanica* Nees.)
Flowers October. In the moist western region ; 2,000′.

487. Hygrophila Br.

1066. H. quadrivalvis Nees. No. 3857.
Flowers and fruits January. In the West ; 2,000′-2,200′.

488. Asteracantha Nees.

1067. A. longifolia Nees. (*Hygrophila spinosa* T. And.)
Flowers October to January. 1,000′-1,800′.

489. Dychoriste Nees.

1068. D. littoralis Nees. (*Calophanes littoralis* T. And.) No. 3607.
Flowers June. At the foot of the hills.

490. Ruellia L.

1069. R. patula Jacq.
Flowers throughout the year. 100′-3,000′

491. Micranthus Wendl.

1070. M. oppositifolius Wendl. (*Phaylopsis parviflora* Willd.) No. 3512.
Flowers December. 2,200′.

492. Dædalacanthus T. And.

1071. D. montanus T. And.
Flowers and fruits February to March. 2,000′-3,000′.

493. Hemigraphis Nees.

1072. H. latebrosa Nees. No. 3508.
Flowers December. 2,250′.

494. Strobilanthes Bl.

1073. S. Kunthianus T. And.
Flowers April and October. 4,000′-7,500′.

1074. S. consanguinea Clarke VAR. **hypoleuca** Clarke.
Flowers December to February, 1,300′-3,000′.

1075. S. barbatus Nees. No. 3489.
Flowers September and December. 2,000′-3,500′.

1076. S. pulneyensis Clarke. No. 3269.
Flowers December to January. 3,000′-4,500′.

1077. S. adenophorus Bedd. No. 3471.
Flowers August. 4,000′—5,000′.

1078. S. decurrens Nees. F. B. I. Beddome!

1079. S. tristis T. And. No. 3264.
Flowers January to April. 4,000′.

1080. S. anceps Nees. VAR. **microstachya** Clarke. F. B. I. Beddome!

1081. S. Heyneanus Nees. No. 3490.
Flowers September to October. 2,300.′

1082. **S. Andersoni** Bedd. F. B. I. Beddome!
6,000′.

1083. **S. luridus** Wight. F. B. I. Beddome!

1084. **S. asper** Wight. F. B. I.

1085. **S. gracilis** Bedd. F. B. I. Beddome!
" 5,000′—6,000′".

1086. **S. amabilis** Clarke.
Flowers March to April. 4,000′—5,000′.

495. Blepharis Juss.

1087. **B. boerhaaviæfolia** Pers.
Flowers December to January. 1,000′—1,500′.

1088. **B. molluginifolia** Pers. No. 3771.
Flowers and fruits November. In the West; 1,300′.

496. Barleria L.

1089. **B. Prionitis** L.
Flowers June, September and December; fruits September to December. 1,000′—1,500′.

1090. **B. cuspidata** Heyne.
Flowers December. Along the foot of the hills.

1091. **B. buxifolia** L.
Flowers May to June. 1,200′—2,300′.

1092. **B. mysorensis** Roth.
Flowers January. At the foot of the hills.

1093. **B. noctiflora** L. f.
Flowers May to June. In the dry eastern region; below 1,000′.

1094. **B. tomentosa** Roth. VAR. **glandulosa** n. v.
Flowers December. 1,000′—1,500′.

Differs from the type and from VAR. *acuminata* in the presence of glandular hairs mixed with longer glandless ones on the branchlets, petioles and in florescence, except the corollas.

1095. B. involucrata Nees. VAR. **elata** Clarke. No. 3247.
Flowers and fruits January. 4,000′.

1096. B. pilosa Wall.
Flowers September and December to January. 1,000′—1,300′.

1097. B. courtallica Nees.
Flowers January. In evergreen forest; 4,500′.

497. Crossandra Salisb.

1098. C. undulæfolia Salisb.
Flowers December to January and May to June. 1,000′—1,600′.

498. Asystasia Bl.

1099. A. coromandeliana Nees.
Flowers September and December. 1,000′—1,500′.

1100. A. chelonoides Nees. No. 3796.
Flowers and fruits March. 2,800′.
VAR. **quadrangularis** Clarke. No. 3796 a.
Flowers and fruits December. 3,000′.

1101. A. travancorica Bedd. F. B. I. & A. C.
" Beddome ! 3,000′. A. C. 4,000′."

499. Eranthemum L.

1102. E. malabaricum Clarke.
Flowers and fruits January to February. 1,200′—2,200′.

500. Andrographis Wall.

1103. A. paniculata Nees.
Flowers March and September ; fruits September. 1,000′—2,500′.

1104. A. Wightiana Arn. F. B. I. Wight!

1105. A. macrobotrys Nees. No. 3457.
Flowers July. At Mount Stuart; 2,250′.

1106. A. viscosula Nees. VAR. **explicata** Clarke. F. B. I. Beddome!

1107. A. Neesiana Wight. A. C.
"4,000′."

1108. A. echioides Nees.
Flowers September; fruits December. 1,000′—1,200′.

501. Gymnostachyum Nees.

1109. G. canescens T. And. A. C.
Udumanparai.

502. Lepidagathis Willd.

1110. L. scariosa Nees.
Flowers December. At the foot of the hills.

1111. L. hyalina Nees. No. 3511.
Flowers December to February. 1,000′—2,500′.

503. Monothecium Hochst.

1112. M. aristatum T. And. No. 3473.
Flowers and fruits August. In the West; 1,200′.

504. Justicia L.

1113. J. montana Wall.
Flowers March. In evergreen forest; 4,300′.

1114. J. Betonica L.
Flowers February and September; fruits September. In the dry eastern region; 1,000′—1,500′.

1115. J. glauca Rottl.
Flowers June and December; fruits December. 1,000′—1,500′.

1116. J. wynaadensis Wall.
Flowers January. In evergreen forest; 3,400′.

1117. J. glabra Koen. No. 3474.
Flowers and fruits June to December. In the moister parts; 1,000′—1,500′.

1118. J. micrantha Wall.
Flowers and fruits December. 2,000′—3,000′.

1119. J. diffusa Willd.
Flowers April. In open grass lands; over 6,500′.

505. Rhinacanthus Nees.

1120. R. communis Nees.
Flowers May and December to January. 1,200′—3,000′.

506. Ecbolium Kurz.

1121. E. Linneanum Kurz.
Flowers April. 2,500′—3,500′.
Var. **dentata** C. B. Clarke.
Flowers December. At the foot of the hills.
Var. **lativirens** C. B. Clarke.
Flowers and fruits June. 1,500′.

507. Rungia Nees.

1122. R. Wightiana Nees. No. 3293.
Flowers and fruits January. 4,000′.

1123. R. longifolia Nees. & Arn. var. **latifolia** Wight. No. 3265.
Flowers January. 4,000′.

1124. R. parviflora Nees. var. **pectinata** C. B. Clarke.
Flowers December to January. 2,000′—3,200′.

1125. R. repens Nees.
Flowers December. In the West; 1,200′.

508. Dicliptera Juss.

1126. D. cuneata Nees.
Flowers and fruits May. 2,500′.

509. Peristrophe Nees.

1127. P. bicalyculata Nees.
Flowers December. 1,200′.

1128. P. montana Nees.
Flowers August to September and December to January. 2,000′—2,500′.

XCV. VERBENACEÆ.

*510. Browallia L.

1129. B. demissa L. No. 3275.
Flowers January. An occasional escape; 4,000.

511. Lantana L.

1130. L. Camara L.
Flowers and fruits all the year round. This dangerous pest has invaded the moist western forests, where it is giving considerable trouble; 1,200′—3,000′.

1131. L. indica Roxb.
Flowers and fruits May, September and December. 2,600′—3,400′.
Var. **albiflora**.
Flowers November. At low elevations in the drier parts.

512. Lippia L.

1132. L. nodiflora Rich.
Flowers and fruits June. At low elevations in damp places.

1133. L. geminata H. B. K.
Flowers January to February; fruits May. In the dry eastern region; 1,000′—1,500′.

*Should be under *Solanaceæ* according to the Kew. Index [Edit.]

513. Stachytarpheta Vahl.

1134. S. indica Vahl.
Flowers and fruits May and December to January. Along the foot of the hills and up to 1,500′. Usually in damp situations.

514. Priva Adans.

1135. P. leptostachya Juss.
Flowers June to July and December to January. 1,000′—3,300′.

515. Callicarpa L.

1136. C. lanata L.
Flowers March to May and December. 3,000′—4,000′.

516. Tectona L. f.

1137. T. grandis L. f. Tamil *Teku.*
Flowers usually July to August, but also seen in February; fruits December to January, but often remaining on the tree till May. The new leaves appear in March in the moister parts and as late as May in the driest ones. Reaches a huge size in the moist western forests. Occurs practically throughout in deciduous forest; 1,000′—4,000.′

517. Premna L.

1138. P. coriacea Clarke. Nos. 3373, 3577.
Flowers March; fruits in the rains. Banks of streams in dense evergreen forests; about 3,000′.

1139. P. purpurascens Thw. F. S.

1140. P. tomentosa Willd. Tamil *Kolakattai-teku.*
Flowers May to June; fruits in the rains. A common tree in the deciduous forests; 1,000′—3,000′.

1141. P. latifolia Roxb. No. 3609. Tamil *Munnai.*
Flowers May to June. In the dry eastern region; 1,000′—1,500′.
Var.? No. 3752.

Flowers June. In the dry eastern tract, 1,000′. Often with completely serrate leaves.

1142. P. Wightiana Schauer.
Flowers July. At the foot of the hills.

518. Gmelina L.

1143. G. arborea L. Tamil *Kumili*.
Flowers March to June; new leaves about May; fruits June to July. 1,200′—3,500′.

1144. G. asiatica L.
Flowers May to June and December. In the East; 900′—1,400′.

519. Vitex L.

1145. V. Negundo L. Tamil *Nochi*.
Flowers January. Along the foot of the hills; rising to 1,600′.

1146. V. altissima L. f. Tamil *Mailadi*.
Flowers May. 1,000′—3,000′.
Var. **alata**. Tamil *Mailadi*.
1,000′—4,000′.

1147. V. leucoxylon L. f. Nos. 3585, 3754. Tamil *Atunochi*.
Flowers February; fruits rains. Along the Amaravathi river; 1,100′. The flowers are often pure white.

520. Clerodendron L.

1148. C. phlomoides L. f.
In the dry eastern region; 1,000′.

1149. C. serratum Spreng.
Flowers December to January and August; fruits December to January; 2,000′—4,000′.

1150. C. infortunatum Gaertn.
Flowers and fruits December to March. 1,000′—4,500′. Attaining a height of 30 feet and a diameter of 6 inches in the dense evergreen forests, where it is one of the first woody plants to spring up in abandoned clearings.

521. **Symphorema** Roxb.

1151. S. involucratum Roxb.
Fruits in the hot season. At the foot of the hills, in the western half principally.

XCVI. LABIATÆ.

522. **Ocimum** L.

1152. O. Basilicum L.
Flowers and fruits December. At the foot of the hills.

1153. O. gratissimum L.
Flowers September. 2,500′.

523. **Geniosporum** Wall.

1154. G. prostratum Benth.
Flowers December to February. At low elevations. Commonest in the driest areas.

524. **Acrocephalus** Benth.

1155. A. capitatus Benth.
Flowers October to December. 1,200′—4,000′.

525. **Orthosiphon** Benth.

1156. O. tomentosus Benth.
Flowers December. 1,000′.
VAR. viscosa Hook. f.
Flowers and fruits October. 2,500′.

1157. O. stamineus Benth. No. 3455.
Flowers July to October. 2,000′—3,000′.

526. **Plectranthus** L'Herit.

1158. P. rivularis Wight. F. B. I. Wight ! Beddome !

1159. P. nilghiricus Benth. No. 3289.
Flowers and fruits May. Torakadavu valley; 3,500′.

1160. P. nepetæfolius Benth.
Flowers December to January. 3,000′.

1161. P. menthoides Benth.
Flowers December to January. 3,000′.

1162. P. incanus Link.
Flowers October. In evergreen forest; 4,000′.

1163. P. coleoides Benth. No. 3278.
Flowers January. 3,400′.

1164. P. fruticosus Wight.
Flowers December to January, 3,400′.

527. **Coleus** Lour.

1165. C. barbatus Benth.
Flowers August and December, fruits December, 3,000′—4,000′.

528. **Anisochilus** Wall.

1166. A. carnosus Wall. No. 3860.
Flowers and fruits December to January. 2,000′—3,500′.

1167. A. Wightii Hook. f. No. 3746.
Flowers and fruits June and December. 2,000′—3,500′.

1168. A. dysophylloides Benth.
Flowers December to January. 2,000′—3,000′.

1169. A. robustus Hook. f.
Flowers September. On Vengoli peak; 3,500′.

529. **Pogostemon** Desf.

1170. P. parviflorus Benth.
Flowers December and April. 2,000′—6,500′.

1171. **P. Wightii** Benth. F. B. I. Wight!
"In wet places."

1172. **P. mollis** Benth. No. 3288.
Flowers December to January. 3,500′—4,500′.

1173. **P. rotundatus** Benth. A. C.

1174. **P. speciosus** Benth. F. B. I.
"On the outskirts of woods; 7,000′—8,000′."

530. Dysophylla Bl.

1175. **D. quadrifolia** Benth. F. B. I. Beddome!

531. Colebrookia Sm.

1176. **C. oppositifolia** Sm.
Flowers December to April. 2,500′—3,500′.

532. Micromeria Benth.

1177. **M. biflora** Benth.
Flowers April. In open grass lands; above 6,000′.

533. Calamintha Mœnch.

1178. **C. umbrosa** Benth.
Flowers and fruits April. In open grass land; above 6,000′.

534. Scutellaria L.

1179. **S. violacea** Heyne.
Flowers and fruits December; 4,000′.
Var. **hispidior** Benth.
Flowers and fruits January to April. 4,000′—6,500′.

1180. **S. rivularis** Wall. F. B. I. Wight!

535. Anisomeles Br.

1181. A. ovata Br.
Flowers December. 1,200′—3,000′.

536. Leucas Br.

1182. L. urticæfolia Br.
Flowers September to December. At the foot of the hills.

1183. L. chinensis Br.
Flowers and fruits March, September and December to January. 2,000′—3,000′.

1184. L. helianthemifolia Desf.
Flowers and fruits March to April. In grass lands; 4,500′—8,200′.

1185. L. lanceæfolia Desf.
Flowers and fruits May. 6,500′.

1186. L. vestita Benth. No. 3,816.
Flowers May. On Ibex Hill; 4,800′.

1187. L. hirta Spreng.
Flowers and fruits December. 3,000′—4,000′.

1188. L. ciliata Benth.
Flowers and fruits December. 3,000′—4,000′.

1189. L. martinicensis Br.
Flowers and fruits February. In the dry eastern region; 1,200′.

1190. L. aspera Spreng.
Flowers and fruits December, 1,000′—3,000′.

1191. L. linifolia Spreng. VAR. **decipiens** Hook. f.
Flowers June. 2,500′.

537. Leonotis Br.

1192. L. nepetæfolia Br.
Flowers September to December; fruits November to December. Along the foot of the hills.

538. Gomphostemma Wall.

1193. G. strobilinum Wall.
Flowers August to October; fruits December. 1,800′—3,000′.

1194. G. eriocarpum Benth. F. B. I. Beddome!

539. Teucrium L.

1195. T. tomentosum Heyne. No. 3292.
Flowers January. 2,800′.

XCVII. PLANTAGINACEÆ.

540. Plantago L.

1196. P. major L.
Flowers and fruits April to May. In damp places; 6,000′—7,000′.

XCVIII. NYCTAGINACEAE.

541. Boerhaavia L.

1197. B. diffusa L. (*B. repens* Linn. VAR. *diffusa*).
Flowers and fruits May and December. 1,200′—2,500′.

1198. B. repanda Willd.
Flowers and fruits throughout the year. 900′—1,600′.

1199. B. verticellata Poir. No. 3449.
Flowers and fruits July. 1,200′.

542. Pisonia L.

1200. P. aculeata L. No. 3782. Tamil *Karumthovarai*.
Flowers February; fruits June to September. In the dry eastern region; below 1,400′.

XCIX. AMARANTACEÆ.

543. Celosia L.

1201. C. argentea L.
Flowers and fruits throughout the year. A weed of cultivation; 900′—3,000′.

1202. C. polygonoides Retz.
Flowers and fruits June. A weed of cultivation. At the foot of the hills.

544. Banalia Moq.

1203. B. thyrsiflora Moq. No. 3255.
Flowers January to May; fruits March to June. In evergreen forest; 4,000′.

545. Allmania Br.

1204. A. nodiflora Br. VAR. **aspera** Hook. f.
Flowers June, 2,250′.
VAR. **angustifolia** Hook. f.
Flowers and fruits September. 1,800′.
VAR. **Roxburghii** Hook. f.
Flowers and fruits December. 1,000′.

546. Digera Forsk.

1205. D. arvensis Forsk.
Flowers August to October. Along the foot of the hills.

547. Amarantus L.

1206. A. spinosus L.
Flowers May and December. 1,500′—3,000′.

1207. A. paniculatus L. Tamil *Kira*.
Cultivated by the hill-men (Muduvas and Pulaiyas); Ripe in December. 2,000′—4,000′.

1208. A. viridis L.
Flowers and fruits July and December. 2,000′—3,000′.

1209. A. polygamus L.
Flowers December. At the foot of the hills.

548. **Pupalia** Juss.

1210. P. atropurpurea Moq. No. 3476.
Flowers and fruits August and December. 1,200′—2,800′.

1211. P. lappacea Moq. VAR. **velutina** Hook. f.
Flowers December. At the foot of the hills.

549. **Psilotrichum** Bl.

1212. P. calceolatum Moq. VAR. **tomentosa** Hook. f.
Flowers May to June. In the dry eastern region; 1,000′—1,500′.

550. **Nothosærua** Wight.

1213. N. brachiata Wight.
Flowers February. In the dry eastern region; 1,000′.

551. **Ærua** Forsk.

1214. Æ. javanica Juss.
Flowers May to June and December. 1,000′—3,000′.

1215. Æ. scandens Wall.
Flowers December. At the foot of the hills.

1216. Æ. lanata Juss.
Flowers May and December. 1,000′—1,500′.

552. **Achyranthes** L.

1217. A. aspera L.
Flowers and fruits June and December. Along the foot of the hills.
VAR. **porphyristachya** Hook. f.
Flowers December. At the foot of the hills.

1218. A. bidentata Bl.
Flowers December. 2,500″.

553. Alternanthera Forsk.

1219. A. triandra Lam. (*A. sessilis* R. Br.).
Flowers and fruits September and December. 1,500′—2,800′.

C. CHENOPODIACEÆ.

554. Chenopodium L.

1220. C. ambrosioides L.
Flowers December. 3,000′.

555. Basella L.

1221. B. rubra L. No. 3475.
Flowers and fruits August to December. 1,000′—3,000′.

CI. POLYGONACEÆ.

556. Polygonum L.

1222. P. pelebejum Br.
Flowers May to June. In the dry eastern region; 1,000′.

1223. P. glabrum Willd.
Flowers January, April and September. Banks of streams; 1,500′—2,000′.

1224. P. stagninum Ham.
Flowers and fruits April and September. Banks of streams; about 2,000′.

1225. P. barbatum L.
Flowers July. Banks of streams; 2,000′.

1226. P. hydropiper L. A. C.
"2,500′."

1227. P. flaccidum Meissn. No. 3663.
Flowers and fruits December. Banks of streams; 2,800′.

1228. P. alatum Ham.
Flowers April. In open grass lands; above 6,000′.

1229. P. chinense L.
Flowers March and September; fruits December. 2,200′—3,200′.

VAR **ovalifolia** Meissn.
Fruits December. 3,000′.

557. Rumex L.

1230. R. nepalensis Spreng.
Fruits April. Near water in open grass lands; above 6,000′.

CII. PODOSTEMONIACÆ.

558. Podostemon Mich.

1231. P. stylosus Benth. F. B. I. Wight!

1232. P. algæformis Benth. F. B. I. and A. C.
Beddome! Thorakadavu-ar.

1233. P. olivaceus Gardn. A. C.

1234. P. selaginoides Benth. F. B. I. and A. C.
Beddome! 4,000′.

1235. P. acuminatus Wedd. A. C.
4,000′.

1236. P. Barberi Willis. A. C. Barber !

(I have had no opportunity of collecting species of this family in the Anaimalais as my visits to the special localities they affect—on rocks in the streams in the dense evergreen forests between 2,500′ and 5,000′—took place only at such seasons when these plants are dried up and unrecognisable).

CIII. ARISTOLOCHIACEÆ.

559. Bragantia Lour.

1237. B. Wallichii Br. No. 3363.
Flowers April, May and December. In dense evergreen forest ; 2,600′—4,500′.

560. Aristolochia L.

1238. A. bracteata Retz.
Flowers February. At the foot of the hills.

1239. A. indica L.
Flowers December to January ; fruits January to April ; 1,000′—1,600′.

1240. A. Tagala Cham. (*A. Roxburghiana* Klotzsch).
2,800′.

CIV. PIPERACEAE.

561. Piper L.

1241. P. tristachyon Cass. A. C.
Iyerpadi.

1242. P. longum L. No. 3646.
Flowers October. 2,000′.

1243. P. brachystachyum Wall. A. C.
Iyerpadi.

1244. P. nigrum L.
Fruits April, 4,500′.

1245. P. argyrophyllum Miq. A. C.
Iyerpadi.

1246. P. subpeltatum Willd. Kadir *Pi-thallai.*
Flowers August, October and December. 2,000′—4,000′.

562. Peperomia Ruiz & Pav.

1247. P. Wightiana Miq.
At about 2,000′.

1248. P. dindigulensis Miq.
Flowers August; fruits December. 2,500′—4,000′.

1249. P. portulacoides A. Dietr.
Flowers April to May. 5,000′—7,000′.

1250. P. reflexa A. Dietr.
Flowers December. 3,000′—4,000′.

CV. CHLORANTHACEÆ.

563. Chloranthus Sw.

1251. C. brachystachyus Bl.
Flowers April to May. In evergreen forest; 3,000′—4,800′.

CVI. MYRISTICACEÆ.

564. Myristica L.

1252. M. Beddomei L. (*M. laurifolia* Hook. f.)
Fruits April. In dense evergreen forest; 3,000′—4,000′.

1253. M. attenuata Wall. A. C.
Udumanparai.

CVII. LAURACEÆ.

565. Cryptocarya R. Br.

1254. C. Wightiana Thw. A. C.
Iyerpadi.

1255. C. Stocksii Meissn. No. 3565.
Flowers April to May. In evergreen forest; 3,000′—6,500′.

566. Beilschmiedia Nees.

1256. B. Wightii Benth. F. B. I. and A. C.
"Beddome! 4,000′."

567. Cinnamomum Bl.

1257. C. nitidum Bl. A. C.
Udamanparai.

1258. C. zeylanicum Breyn. No. 3735.
Flowers April. 4,000′—6,500′.

1259. C. multiflorum Wight. A. C.
Iyerpadi.

1260. C. sulphuratum Nees. No. 3352.
Flowers April. In evergreen forest; 5,500′.

1261. C. Wightii Meissn. Nos. 3340, 3726.
Flowers and fruits April. In evergreen forest; 6,000′—7,500′.

568. Machilus Nees.

1262. M. macrantha Nees. No. 3553. Pulaiya *Lavungamaram.*
Flowers February. 3,000′—4,500′.

569. Phoebe Nees.

1263. P. lanceolata Nees. F. S. and A. C.
3,000′—4,000′.

1264. P. paniculata Nees. A. C.
4,000′.

570. Alseodaphne Nees.

1265. A. semicarpifolia Nees. No. 3445.
Flowers May to June. 1,700′.
VAR. **parvifolia** Hook. f.
Flowers May. 2,600′.

571. Actinodaphne Nees.

1266. A. campanulata Hook. f. A. C.

1267. A. hirsuta Hook. f. A. C.
Iyerpadi.

572. Litsea Lam.

1268. L. tomentosa Heyne. No. 3208.
Flowers December. 2,800′.

1269. L. polyantha Juss. A. C.
4,000′.

1270. L. coriacea Heyne. A. C.
Udumanparai.

1271. L. Stocksii Hook. f. A. C.
Iyerpadi.

1272. L. oleoides Meissn. A. C.
Udumanparai.

1273. L. Wightiana Wall. Nos. 3339, 3721.
Flowers April to May; fruits rains. In evergreen forest; 4,000′—7,500′.

1274. L. zeylanica C. & T. Nees.
Flowers May to June. 3,000′—6,000′.

1275. L. Hookeriana Hook. f. A. C.
4,000′.

1276. L. sp. ? No. 3405. Muduva *Manjavarri.*
In dense evergreen forest, Torakadavu valley; 5,000′.

573. Cassytha L.

1277. C. filiformis L.
Flowers April. In dense evergreen forest; 3,500′—7,000′. Usually on *Strobilanthes spp.*

CVIII. PROTEACEÆ.

574. Grevillea A. Cunn.

1278. G. robusta A. Cunn.
Planted as a shade for coffee and as an ornamental tree. An occasional escape. Flowers during the rains.

CIX. THYMELIACEÆ.

575. Lasiosiphon Fresen.

1279. L. eriocephalus Dcne. Tamil *Malaivirali*; Pulaiya *Malainanji.*
Flowers December and March; fruits March; 3,300′—7,000′.

CX. ELÆAGNACEÆ.

576. Elæagnus L.

1280. E. latifolia L. No. 3420. Tamil *Malaikoya*; Pulaiya *Vellanjelli.*
Flowers May to June and September; fruits September. 1,200′—4,000′.

CXI. LORANTHACEÆ.

577. Loranthus L.

(The generic name for all the *Loranthi* and *Visci* is *Pulluruvai* in Tamil and *Puluruvi* with the Pulaiyas; the name of the host plant is usually prefixed, thus *Teku-pulluruvai* would be any *Loranthus* or *Viscum* growing on *Tectona grandis*).

1281. L. Wallichianus Schultz.
Flowers April and July to August. 2,500′—3,500′.

1282. L. obtusatus Wall.
Flowers April. 3,500′—4,000′.

1283. L. Hookerianus W. & A. No. 3709.
Flowers April. 4,000′.

1284. L. scurrula L.
Flowers November to December. 1,200′—3,000′.

1285. L. tomentosus Heyne.
Flowers December. 2,000′.

1286. L. bracteatus Heyne. No. 3441.
Flowers May. 1,500′.

1287. L. cuneatus Heyne.
Fruits December. 3,000′—4,000′.

1288. L. longiflorus Desrouss.
Flowers February. In the dry eastern region; 1,000′—1,300′.
VAR. **falcata** Kurz.
Flowers February, May to June, September and December. Along the foot of the hills and rising to 1,400′. Very common on *Albizzia amara* Boiv.
VAR. **pubescens** Hook. f.
Flowers December. 3,000′.

1289. L. elasticus Desrouss.
Flowers and fruits July. Along the foot of the hills, mostly in the drier eastern region.

1290. L. neelgherrensis W. & A. No. 3417.
Fruits June. 3,000′—4,500′.

1291. L. loniceroides L.
Flowers May and September. 1,500—3,000′.

1292. L. capitellatus W. &. A.
Flowers May to June; fruits June. 1,600′—2,800′.

578. Viscum L.

1293. V. verruculosum W. & A. No. 3468.
Flowers May. 3,000′.

1294. V. orientale Willd.
Flowers April to December; fruits September to December. 1,000′—3,000′.

1295. V. capitellatum Sm.
Flowers and fruits December. 2,200′.

1296. V. ramosissimum Wall. No. 3418.
Flowers May to June; fruits June. 1,000′—4,500′.

1297. V. articulatum Burm.
Flowers during the rains; fruits cold season. 1,200′—3,000′.

1298. V. japonicum Thunb. No. 3322.
Fruits May. Above 6,300′.

CXII. SANTALACEÆ.

579. Thesium L.

1299. T. Wightianum Wall.
Flowers April. On Thanakumalai; 8,200′.

580. Santalum L.

1300. S. album L.
Flowers February. Near the Travancore frontier in the dry eastern zone; 1,500′. There are a few scattered individuals in this locality, near the village of Thalinji. There are some plantations in Travancore territory not very far from Thalinji and presumably these have sprung up from seeds conveyed by birds or animals.

581. Osyris L.

1301. O. arborea Wall.
Flowers May. 3,000′—4,000′.

CXIII. BALANOPHORACEÆ.

582. Balanophora Forst.

1302. B. indica Wall.
Flowers May. In evergreen forest; 4,000′—6,500′.

CXIV. EUPHORBIACEÆ.

583. Euphorbia L.

1303. E. hypericifolia L.
Flowers and fruits December. 900′—1,300′.

1304. E. pilulifera L.
Flowers and fruits January and May. About 1,200′.

1305. E. rosea Retz.
Flowers and fruits January and May. 1,500′—2,700′.

1306. E. Tirucalli L. No. 3659. Tamil *Pachchankalli*.
Flowers October; fruits May. At the foot of the hills. Much used for hedges.

1307. E. Nivulia Ham. Tamil *Yellaikalli*.
Flowers October to November. 1,200′—2,600′.

1308. E. antiquorum L. Tamil *Vallakalli, Thirugakalli.*
Flowers December to January; fruits January to February. 900′—1,500′. This and the next species are greatly used for the hedges of fields.

1309. E. tortilis Rottl. Tamil *Thirugakalli.*
Flowers February. 900′—1,500′.
(Presumably *E. Tirucalli* L. received its name from the Tamil name *Thirugakalli* and there must have been some confusion, as the Tamil names are as given. *Thirugakalli* presumably should be the correct name for *E. tortilis* only since it conveys approximately the same significance as *tortilis*, but no distinction is made locally between it and *E. antiquorum*).

1310. E. trigona Haw.
Flowers December. 2,500′—3,500′.

1311. E. dracunculoides Lam. Nos. 3487, 3614.
Flowers and fruits June and September; also young unripe fruits seen in February. In the dry eastern region; 1,100′.

1312. E. Rothiana Spreng.
Flowers and fruits January to April. 4,000′.

584. Sarcococca Lindl.

1313. S. pruniformis Lindl.
Flowers April and December. 3,000′—6,500′.

585. Bridelia Willd.

1314. B. retusa Spreng. Tamil *Mulluvengai.*
Flowers May, August to September and December; fruits April. 1,000′—4,500′.

1315. B. stipularis Bl.
Flowers November. 2,500′.

586. Cleistanthus Hook. f.

1316. C. collinus Benth.
Fruits June. At the foot of the hills in the West.

587. Actephila Bl.

1317. A. excelsa Muell.-Arg. No. 3708.
Flowers April. In dense evergreen forest; 1,200′.

588. Phyllanthus L.

1318. P. longipes Muell.-Arg.
Flowers May. In dense evergreen forest; 4,200′.

1319. P. Thwaitesianus Muell.-Arg. A. C.

1320. P. reticulatus Poir.
Flowers September; fruits December. 1,000′—1,500′.

1321. P. Emblica L. Tamil *Nelli*.
Flowers April; fruits December. Common in the drier deciduous forests and grass lands; 1,200′—4,500′.

1322. P. Rheedii Wight. A. C.

1323. P. urinaria L. No. 3851.
Flowers and fruits December to January. 2,400′.

1324. P. simplex Retz. No. 3290.
Flowers and fruits April, August, October and December. 1,800′—6,000′.

1325. P. Niruri L.
Flowers December. At the foot of the hills.

1326. P. debilis Ham.
Flowers and fruits January. 4,500′.

589. Glochidion Forst.

1327. G. zeylanicum A. Juss. A. C.
Var. **nitidum** Dalz. & Gibs. No. 3388.
Flowers April; fruits September. 1,000′—2,700′.

1328. G. fagifolium Miq. No. 3404.
Flowers May. In evergreen forest; 3,500′—5,000′.

1329. G. Hohenackeri Bedd.
Flowers April. 3,500′—6,500′.

1330. G. malabaricum Bedd.
Flowers and fruits December. 3,500′.

1331. G. ellipticum Wight. A. C.
Udumanparai.

1332. G. velutinum Wight.
Flowers May. 4,500′.

1333. G. sp. ? No. 3301.
Not matched in the Sibpur herbarium. Flowers March. At Iyerpadi 4,000′.

590. Fluggea Willd.

1334. F. microcarpa Bl.
Flowers May. 2,300′—2,800′.

1335. F. leucopyrus Willd.
Flowers June. 1,500′.

591. Breynia Forst.

1336. B. patens Benth.
Flowers May; fruits January. 3,000′—4,000′.

592. Sauropus Bl.

1337. S. albicans Bl. No. 3587.
Flowers May and October; fruits October. In dense evergreen forest; 2,800′—00′.

1338. S. retroversus Wight. A. C.
4,000′.

1339. S. trinervius Muell.-Arg. No. 3308.
Flowers March. In evergreen forest; above 6,000′.

593. Putranjiva Wall.

1340. P. Roxburghii Wall. No. 3485. Tamil *Irukolli*.
Fruits during the rains. In the dry eastern tracts, usually near streams; 1,200′—1,500′.

594. Hemicyclia W. & A.

1341. H. sepiaria W. & A. Nos. 3438, 3620, 3751. Tamil *Virai, Nallavirai.*
Flowers January and May; fruits June. In the dry eastern region; 1,000′—2,000′.

1342. H. venusta Thw. A.C.
Udumanparai.

1343. H. elata Bedd. F.S.

1344. H. Wightii Hook. f. No. 3582.
Flowers May. In dense evergreen forest; 3,000′.

595. Cyclostemon Bl.

1345. C. macrophyllus Bl. F.S.
Common in dense evergreen forest; 2,000′—4,000′.

1346. C. malabaricus Bedd.
Flowers April. In dense evergreen forest; 3,300′.

596. Bischofia Bl.

1347. B. javanica Bl.
1500′-4000′.

597. Aporosa Bl.

1348. A. acuminata Thw. A.C.
Udumanparai.

1349 A. Lindleyana Baill. A.C.
4,000′.

598. Daphniphyllum Bl.

1350. D. glaucescens Bl. F.S.
4,000′ and over.

599. Antidesma L.

1351. A. Ghesaembilla Gaertn. No. 3451. Tamil *Pulianchedi.*
Fruits during the rains. In the moist deciduousf orests; 1,800′—2,500′.

1352. A. diandrum Roth. No. 4028. Malasa *Katupuli.*
Flowers April and July; fruits December. 1,800′—2,800′.

1353. A. Menasu Miq. No. 3419.
Flowers April to May; fruits May. 3,000′—4,500′.

600. Baccaurea Lour.

1354. B. courtallensis Mudl.-Arg. F.B.I.
Wight! and Beddome!

601. Manihot Adans.

1355. M. Glaziovii Muell.-Arg.
Flowers July; fruits November. Planted in some of the estates between 3,000′ and 4,000′ and also at Mount Stuart between 2,000′ and 2,500′, where it comes up as a weed from fallen seed.

602. Jatropha L.

1356. J. gossypifolia L.
Flowers and fruits January. In the dry eastern region; below 1,000′.

1357. J. Wightiana Muell.-Arg. No. 3434.
Flowers February, April to May and September; fruits May to September. 1,000′—1,500′.

1358. J. Curcas L. Tamil *Katukottai.*
Flowers May to June; fruits February. 1,000′—3,000′. Planted as a hedge and run wild.

603. Croton L.

1359. C. reticulatus Heyne. No. 3384.
Flowers April to May and August; fruits May. In dense evergreen forest; 2,400′—4,500′.

1360. C. aromaticus L. Nos. 3591, 3621.
Flowers May; fruits December. 3,000′—5,000′.

1361. C. malabaricus Bedd.
In dense evergreen forest; 2,000′—3,000′.

1362. C. candatus Geisel. No. 3638.
Fruits during the rains. In evergreen forest; 2,400′.

604. Givotia Griff.

1363. G. rottleriformis Griff. Tamil *Vellabuthalai*.
Flowers April when leafless; new leaves end of April; fruits December. On dry rocky slopes; 1,000′—3,500′.

605. Ostodes Bl.

1364. O. zeylanica Muell.-Arg. F.B.I. Beddome!
2,000′—3,000′.

606. Dimorphocalyx Thw.

1365. D. Lawianus Hook.f. No. 3623.
Fruits during the rains. In evergreen forest; 2,200′—4,000′.

607. Agrostistachys Dalz.

1366. A. indica Dalz.
Fruits May. In evergreen forest; 5,000′.

1367. A. longifolia Benth. No. 3713.
Flowers January; fruits hot season. Very common as an understory in the dense evergreen forests; 3,000′—4,500′.

608. Chrozophora Neck.

1368. C. plicata A. Juss.
Flowers June; fruits November to December. 1,000′—1,300′.

609. Claoxylon A. Juss.

1369. C. oligandrum Muell.-Arg. No. 3309.
Flowers March to May. 4,000′—6,500′.

1370. C. Beddomei Hook.f. F.B.I. Beddome!

610. Acalypha L.

1371. A. paniculata Miq.
Flowers and fruits July to August. 1,000′—3,000′.

1372. A. fruticosa Forsk.
Flowers and fruits May to June. 1,200′—1,600′.

1373. A. indica L.
Flowers May and November to December; fruits December to January. Along the foot of the hills.

1374. A. brachystachya Horn. No. 3505.
Flowers during the rains; fruits cold season. Near Mount Stuart; 2,300′.

1375. A. lanceolata Willd. (*A. fallax* Muell.-Arg.)
Flowers July. 1,200′.

1376. A. ciliata Forsk.
Flowers and fruits July to August. 1,000′—2,600′.

611. Adenochlæna Baill.

1377. A. indica Bedd. F.S.
"Flowers and fruits at all seasons, in evergreen forests, generally on the banks of streams, 1,500′—4,000′."

612. **Mallotus** Lour.

1378. M. albus Muell.-Arg.
Flowers and fruits January. 4,000′.

1379. M. muricatus Bedd. No. 3423.
Flowers and fruits April to June. 1,500′—4,000′.

1380. M. stenanthus Muell.-Arg. A.C.
4,000′.

1381. M. Lawii Muell.-Arg. F.S.

1382. M. Beddomei Hook.f. F.B.I.
Beddome, 4,000′.

1383. M. philippinensis Muell.-Arg.
Flowers October; fruits December to January. 1,000′—4,000′.

613. **Cleidion** Bl.

1384. C. javanicum Bl. F.S.
In evergreen forest; 2,000′—3,000′.

614. **Macaranga** Thours.

1385. M. tomentosa Wight. (*M. Roxburghii* Wight.)
Flowers January. 3,000′—4,000′. Springing up abundantly as secondary growth in abandoned clearings in evergreen forest.

615. **Homonoia** Lour.

1386. H. riparia Lour.
Flowers April; fruits December. Along stream banks and in the beds of rocky streams; 1,800′—2,800′.

616. **Ricinus** L.

1387. R. communis L.
Cultivated and occasionally found as an escape.

617. **Baliospermum** Bl.

1388. B. axillare Bl.
Flowers April and December; fruits December. In the moist deciduous forests; 1,800′—2,200′.

618. **Tragia** L.

1389. T. involucrata L.
Flowers and fruits September to January. 1,800′—4,000′.

619. **Excæcaria** L.

1390. E. crenulata Wight. No. 3414. Kadir *Sholaishern.*
Flowers May. In evergreen forest; 3,000′—6,000′. The leaves are frequently alternate.

1391. E. robusta Hook.f. Nos. 3425, 3818.
Flowers May; fruits June. 2,400′.

620. **Sebastiana** Spreng.

1392. S. Chamælea Muell.-Arg.
Flowers and fruits August. 2,000′—3,000′.

CXV. URTICACEÆ.

621. **Holoptelia** Planch.

1393. H. integrifolia Planch. Tamil *Aya.*
Flowers October; fruits February. Along the foot of the hills.

622. **Celtis** L.

1394. C. tetrandra Roxb. No. 3741. Pulaiya *Omamaram.*
Fruits June. 2,500′—3,000′.

1395. C. cinnamomea Lindl.
Flowers February; fruits May to June. 1,000′—2,500′.

1396. C. Wightii Planch. No. 3446. Tamil *Kalluvirai*.
Flowers February to May. 1,000′—1,500′.

623. Trema Lour.

1397. T. orientalis Bl.
Flowers December to January; fruits hot season. 1,200′-3,000′.

624. Streblus Lour.

1398. S. asper Lour.
Flowers February: fruits March to April. 1,000′—2,500′.

625. Plecospermum Trécul.

1399. P. spinosum Trécul. No. 4330.
Flowers May. On the Travancore frontier in the East; 2,400′.

626. Dorstenia L.

1400. D. indica Wall.
Flowers October; fruits April. 4,000′.

627. Ficus L.

1401. F. gibbosa Bl. A.C.
Udumanparai.

VAR. **parasitica** King.

Flowers December. 1,000′—3,000′.

1402. F. bengalensis L. No. 3813. Tamil *Ichchi*.
Flowers and fruits May. 1,000′—3,000′.

1403. F mysorensis Heyne.
Tekkdı forest in the West; 1,900′.

1404. F. tomentosa Roxb. Tamil *Kalichchi*.
Flowers May. 1,300′—3,000′.

1405. F. Beddomei King. No. 3245.
Flowers and fruits January. In evergreen forest; 4,000′.

1406. F. Benjamina L. Tamil *Ponichchi.*
Flowers May to June. 1,000′—3,000′.

1407. F. elastica Roxb.
Planted to a small extent in some of the estates; 3,000′—4,000′.

1408. F. retusa L. A.C.
4,000′.

1409. F. nervosa Roth. A.C.
Iyerpadi.

1410. F. religiosa L. Tamil *Arasu.*
Flowers December. 1,000′—3,000′.

1411. F. Arnottiana Miq.
Fruits February. 1,900′—3,000′.

1412. F. Tsiela Roxb.
At the foot of the hills as an avenue tree. According to the A.C. list, also at Udumanparai in evergreen forest.

1413. F. infectoria Roxb.
At about 3,000′.

1414. F. asperrima Roxb.
Fruits May. 3,000′—4,500′.

1415. F. hispida L.
Flowers May. 2,000′—4,000′.

1416. F. guttata Kurz.
6,500′.

1417. F. glomerata Roxb.
Flowers December to January and May; fruits December to January. 1,000′—3,000′.

628. **Antiaris** Lesch.

1418. A. toxicaria Lesch. F.S. Kadir *Alli.*
Flowers rains; fruits January.

629. **Artocarpus** Forst.

1419. A. hirsuta Lam.
Flowers May. 1,500′—4,000′.

1420. A. integrifolia L. f. Tamil *Pillamaram*.
Flowers May to July; fruits rains and cold season. In evergreen forest; 2,500′—4,000′.

1421. A. Lakoocha Roxb. A.C.
Udumanparai.

630. **Fleurya** Gaud.

1422. F. interrupta Gaud.
Flowers September to October. 1,800′—2,500′.

631. **Laportea** Gaud.

1423. L. crenulata Gaud. English *The Elephant Nettle.*
Flowers and fruits January. In evergreen forest; 3,000′—4,000′ The worst of the stinging nettles; it is justly dreaded by all who frequent these forests.

632. **Girardinia** Gaud.

1424. G. heterophylla Dcne. English *The Nilgiri Nettle.*
Flowers December. 3,000′.

633. **Pilea** Lindl.

1425. P. muscosa Lindl. No. 3595. English *The Gunpowder Plant.*
Flowers and fruits May. 4,000′. Run wild in the estates.

1426. P. Wightii Wedd. No. 3306.
Flowers and fruits March. 7,500′.

1427. P. stipulosa Miq.
In evergreen forest; 4,000′—5,000′.

1428. P. trinervia Wight.
Flowers January and September. 2,200′—5,400′.

634. **Pellionia** Gaud.

1429. P. Heyneana Wedd.
Flowers April to May. In evergreen forest; 2,000′—3,500′.

635. **Elatostema** Forst.

1430. E. sessilis Forst. A.C.
At about 2,600′.

1431. E. lineolatum Wight. No. 3395.
Flowers December to January and April. 3,000′—6,500′.

1432. E. acuminatum Brogn. No. 3586.
Flowers May. In dense evergreen forest; 4,000.′

636. **Procris** Juss.

1433. P. laevigata Bl. A. C.
"3,500′—4,000′."

637. **Pouzolzia** Gaud.

1434. P. indica Gaud.
Flowers August and December, fruits December. 2,200′—3,200′.

1435. P. Wightii Benn. No. 3306.
Flowers December and March. 3,000′—7,500′.

1436. P. scabra Wight.
Flowers October. 4,000′.

1437. P. caudata Benn. No. 3859.
Fruits January. Mount Stuart; 2,000′.

1438. P. Bennettiana Wight.
Flowers April. 6,500′.

638. **Villebrunea** Gaud.

1439. V. integrifolia Gaud.
Fruits March. 4,000′.

VAR. **sylvatica** Hook. f. No. 3550. Pulaiya *Omamara.*
Flowers February: fruits May. 2,800′—5,000′.

1440. V. frutescens Bl. A.C.
4000′.

639. Debregeasia Gaud.

1441 D. velutina Gaud.
Flowers December ; fruits March. 3,000′—4,500′.

1442. D. Wallichiana Wedd. No. 3581.
Flowers May. In evergreen forest ; 3,000′.

CXVI. SALICACEÆ.

640. Salix L.

1443. S. tetrasperma Roxb. Muduva *Nirvanji*.
Fruits December. Banks of streams ; 2,000′—3,000′.

CXVII. GNETACEÆ.

641. Gnetum L.

1444. G. scandens Roxb.
Fruits June. Banks of the Chinnar on the Travancore frontier ; 1,500′.

CXVIII. CONIFERÆ.

642. Podocarpus. L'Herit.

1445. P. latifolia Wall. A.C.
Iyerpadi.

CXIX. CYCADACEÆ.

643. Cycas L.

1446. C. circinalis L. Muduva *Peyithi*.
Flowers hot season ; fruits rains. 1,500′—3,000′.

MONOCOTYLEDONEAE.

CXX. HYDROCHARIDACEÆ.

644. Blyxa Thouars

1447. B. ceylanica Hook f. A.C.
Udumanparai.

645. Ottelia Pers.

1448. O. alismoides Pers.
Flowers December. At the foot of the hills.

CXXI. BURMANNIACEÆ.

646. Burmannia L.

1449. B. coelestis D. Don.
Flowers December to January. 3,500′.

1450. B. candida Griff.
Flowers December to January. 3,500′.

1451. B. Wallichii Hook. f. No. 3224.
Flowers December to January. 3,500′—4,500′.

CXXII. ORCHIDACEÆ.

647. Oberonia Lindl.

1452. O. iridifolia Lindl. No. 3509.
Flowers December. 3,000′.

1453. O. ensiformis Lindl. No. 3502.
Flowers October. 2,500′.

1454. O. zeylanica Hook. f. No. 3263.
Flowers January. 4,000′.

648. Microstylis Nutt.

1455. **M. Wallichii** Lindl. F. B. I. Beddome !

649. Liparis Rich.

1456. **L. platyphylla** Ridl. F. B. I. Beddome ! 3,500′.

1457. **L. pusilla** Ridl. F. B. I. Beddome !

650. Dendrobium Sw.

1458. **D. microbulbon** A. Rich. No. 4030.
Flowers December to January. Mount Stuart; 2,200′.

1459. **D. nanum** Hook. f. No. 3304.
Flowers April to May; fruits May. Above 6,000′.

1460. **D. heterocarpum** Wall. No. 3675.
Fruits January. 2,000′—3,000′.

651. Cirrhopetalum Lindl.

1461. **C. Gamblei** Hook. f. Nos. 3334, 3725.
Flowers April. Above 6,500′.

652. Eria Lindl.

1462. **E. nana** A Rich. No. 3803.
Fruits May. 6,500′.

653. Cœlogyne Lindl.

1463. **C. glandulosa** Lindl. No. 3722.
Fruits April. 6,500′.

654. Calanthe Br.

1464. **C. Masuca** Lindl.
Flowers May. In dense evergreen forest; 6,500′.

1465. **C. veratrifolia** Br.
Flowers April to May. 4,000′—7,000′.

655. Eulophia Br.

1466. E. nuda Lindl. No. 3812.
Flowers May, appearing before the leaves, which bud out with the first rains in June. 2,000′—2,500′.

656. Cymbidium Sw.

1467. C. aloifolium Sw. (*C. bicolor* Lindl.) No. 3470.
Fruits May. 2,800′.

657. Luisia Gaud.

1468. L. teretefolia Gaud.
3,000′.

1469. L. tenuifolia Bl. A. C.
About 2,600′.

658. Cottonia Wight.

1470. C. macrostachya Wight. No. 3358.
Flowers April. 2,000′.

659. Ærides Lour.

1471. Æ. radicosum A. Rich. Nos. 3329, 3462.
Flowers April to May and August. 3,000′—8,000′.

660. Vanda R. Br.

1472. V. parviflora Lindl. Nos. 3740, 3756, 3822.
Flowers April to May and July. 2,000′—3,000′.

1473. V. Roxburghii Br. No. 3433.
Flowers May to June. In the dry tracts; 1,000′—1,500″.

661. Saccolabium Bl.

1474. S. filiforme Lindl. F. B. I. Cotton!

662. Thelasis Bl.

1475. T. pygmæa Lindl. No. 3370
Flowers April. 2,000′.

663. Tropidia Lindl.

1476. T. angulosa Sl.
Flowers August. 2,000′.

664. Anæchtochilus Bl.

1477. A. elatior Lindl. A. C.
Udumanparai.

665. Spiranthes Rich.

1478. S. australis Lindl.
Flowers March to April; fruits April. In swampy grass lands; 7,000′—8,000′.

666. Herminium L.

1479. H. goodyeriodes Lindl. (F. B. I.) (*Habenaria goodyeroides* Don) No. 3628.
Flowers August. Mount Stuart; 2,200′.

667. Peristylus Bl.

1480. P. plantagineus Lindl. (*Habenaria Wightii* Trim.) No. 3461.
Flowers July. Mount Stuart; 2,200′.

668. Habenaria Willd.

1481. H. macrostachya Lindl. F. B. I. Beddome!

1482. H. rariflora A. Rich. No. 3453.
Flowers July. Near Mount Stuart; 2,000′—2,500′.

1483. H. Richardiana Wight. A. C.
"About 2,600′."

1484. H. longicornu Lindl.
Flowers October. 4,000′.

1485. H. platyphylla Spreng.
Flowers July. 1,200′.

1486. H. plantaginea Lindl.
Flowers September. 1,800′—2,300′.

1487. H. longicalcarata A. Rich.
Flowers July to August. 2,200′—4,000′.

1488. H. fusifera Hook. f. F. B. I. Beddome !

1489. H. affinis Wight. No. 3506.
Flowers November. 1,900′.

1490. H. ovalifolia Wight. No. 3819.
Flowers July. Near Mount Stuart; 2,500′.

1491. H. marginata Coleb. No. 3766.
Flowers October. In swampy places in the western deciduous forests; 1,800′.

1492. H. obcordata Lind. VAR. **nilagirica** Wight.
(*H. galeandra* Benth. VAR. *nilagirica* Hook. f.)
Flowers April and December. 3,200′—7,500′.

669. Satyrium Sw.

1493. S. nepalense Don.
In marshy places in the grass lands; above 6,000′.

CXXIII. SCITAMINEÆ.

670. Globba L.

1494. G. ophioglossa Wight. F. B. I. Wight ! and Jerdon !

1495. G. bulbifera Roxb.
Flowers July. In the moist western deciduous forests; 1,800′—3,000′.

671. Curcuma L.

1496. C. aromatica Salisb. No. 3355.
Flowers April to May. 3,000′—4,300′.

1497. C. Zeodaria Rosc. No. 3356.
Flowers April. In dense evergreen forest; 3,300′.

1498. C. pseudomontana Grah. (*C. montana* Rosc.) No. 3459.
Flowers July. Mount Stuart; 2,100′.

1499. C. strobilifera Wall. ? No. 3755. Malasa *Panikugai*.
Flowers November. Tekkadi forests; 1,800′.

N

1500. C. decipiens Dalz. No. 3456.
Flowers July. Tekkadi forests; 2,000′.

1501. C. sp. ? (PROX. *petiolata* Rosc.) No. 3624.
Flowers September. Near Mount Stuart; 2,100′.

672. Hitchenia Wall.

1502. H. caulina Baker. No. 3757.
Flowers July. Mount Stuart; 2,100′.

673. Hedychium Koen.

1503. H. coronarium Koen.
Flowers May, September and December. 2,000′—4,500′.

674. Amomum L.

1504. A. involucratum Benth. No. 3300.
Flowers March and May. 4,000′—5,000′.

1505. A. acuminatum Thw.
Flowers August. 3,500′.

1506. A. microstephanum Baker. No. 3574.
Flowers and fruits May. 3,000′.

1507. A. cannæcarpum Benth. No. 3798.
Flowers and fruits April to May. Iyerpadi; 4,000′.

675. Zinziber Adans.

1508. Z. Wightianum Thw. Nos. 3639, 3758.
Flowers May, July and September. 1,800′—3,000′.

1509. Z. officinale Rosc.
Flowers July. Apparently truly wild in the moist deciduous forests in the West; 2,300′.

1510. Z. Zerumbet Sm. Nos. 3460, 3820.
Flowers July. 2,000′—2,500′.

676. **Costus** L.

1511. **C. speciosus** Sm.
Flowers August to October; fruits October to December. In the moist forests; 1,800′—3,000′.

677. **Elettaria** Maton.

1512. **E. Cardamomum** Maton.
Flowers January. In dense evergreen forests; 2,500′—4,000′. Also planted on some of the estates.

678. **Clinogyne** Salisb.

1513. **C. virgata** Benth.
Flowers April to May, July and September. 2,000′—3,300′.

679. **Musa** L.

1514. **M. sapientum** L.
3,000′—4,000′.

CXXIV. BROMELIACEÆ.

680. **Ananassa** Adans.

1515. **A. sativa** L.
Cultivated by the Muduvas of Olikadu; 2,000′.

CXXV. HÆMODORACEÆ.

681. **Peliosanthes** Andr.

1516. **P. neilgherrensis** Wight. No. 3333.
Flowers and fruits April. 6,500′.

682. **Ophiopogon** Ker

1517. **O. intermedium** Don. No. 3260.
Flowers August; fruits January. 4,000′.

683. Sansevieria Thunb.

1518. **S. zeylanica** Willd. Tamil *Marul.*
In the dry eastern region. 1,000′—1,500′.

CXXVI. AMARYLLIDACEÆ.

684. Hypoxis L.

1519. **H. aurea** Lour.
Flowers May. At Periakulam swamp; 6,200′.

685. Curculigo Gaertn.

1520. **C. Finlaysoniana** Wall. No. 3399.
Flowers April to May. In dense evergreen forest; 3,200′—5,000′.

1521. **C. orchioides** Gaertn.
Flowers April to May. 3,000′—7,000′.

686. Crinum L.

1522. **C. asiaticum** L. No. 3610.
Flowers June. On dry rocky slopes; 1,600′—2,000′.

1523. **C. latifolium** L.
Flowers April to May. 4,000′—4,500′.

687. Pancratium L.

1524. **P. triflorum** Roxb. No. 3647.
Flowers April to May and October. 1,900′—2,200′.

CXXVII. DIOSCORIACEÆ.

688. Dioscorea L.

1525. **D. daemona** Roxb.
Flowers July. Tekkadi forests; 2,000′.

1526. **D. tomentosa** Heyne. Tamil *Shaval-kalangu.*
Flowers October. 2,000′.

1527. **D. penta phylla** L.
Flowers during the rains. In the dry eastern region; 1,300′.

VAR. **Wightii** Prain & Burk. No. 3765.
Flowers October. Tekkadi forests; 1,800′.

1528. **D. oppositifolia** L.
Flowers May and October. 2,000′—4,000′.

1529. **D. bulbifera** L. (*D. sativa* L.) Tamil *Pannu-kalangu.*
Flowers October. In the moist deciduous western forests; 1,800′—2,500′.

CXXVIII. LILIACEÆ.

689. Smilax L.

1530. **S. aspera** L. A. C.
Udumanparai.

1531. **S. zeylanica** L. No. 3599.
Flowers. May. 4,000′—5,000′.

1532. **S. prolifera** Roxb.
Fruits June and September. 1,500′—4,000′.

690. Asparagus L.

1533. **A. racemosus** Willd.
Flowers April. 1,800′—3,000′.

691. Dracaena L.

1534. **D. terniflora** Roxb.
Flowers May; fruits October. 2,000′.

692. Chlorophytum Ker.

1535. **C. tuberosum** Baker
Flowers June and September. In the dry eastern region; 1,100′.

1536. **C. orchidastrum** Lindl. No. 3450.
Flowers July to January; fruits August to January. In the moist deciduous western forests; 1,800′—2,500′.

693. Urginea Steinh.

1537. **U. indica** Kunth. No. 3783.
Flowers February. In the dry eastern region; 1,500′.

1538. **U. Wightiana** Hook. f. No. 3422.
Flowers April to May, when leafless; 2,500′—3,000′.

694. Scilla L.

1539. **S. indica** Baker
Flowers July. 1,000′—2,500′.

695. Lilium L.

1540. **L. neilgherrense** Wight.
In open grass lands; above 6,000′. Not common.

696. Gloriosa L.

1541. **G. superba** L. Tamil *Kannuvelli*.
Flowers August to December. 1,000′—3,500′.

697. Disporum Salisb.

1542. **D. Leschenaultianum** Don. No. 3305.
Flowers March to May. 6,500′.

698. Aloe L.

1543. **A. vera** L.
Flowers September to January. Run wild at the foot of the hills.

CXXIX. PONTEDERIACEÆ.

699. Monochoria Presl.

1544. **M. hastæfolia** Presl.
Flowers October. In swamps in the Tekkadi forests ; 1,800′.

1545. **M. vaginalis** Presl.
Flowers February and September. In swamps in the dry eastern region ; 1,000′.

CXXX. XYRIDACEÆ.

700. Xyris L.

1546. **X. schœnoides** Mart.
Flowers April and December. 3,400′—7,500′.

1547. **X. pauciflora** Willd. No. 4031.
Flowers December. Near Mount Stuart ; 2,000′.

CXXXI. COMMELINACEÆ.

701. Commelina L.

1548. **C. benghalensis** L.
Flowers December. At the foot of the hills.

1549. **C. hirsuta** Clarke.
Flowers April. In open grass lands ; above 6,500′.

1550. **C. nudiflora** L. No. 3858.
Flowers and fruits August to January. In the moist deciduous western forests ; 1,800′—3,000′.

1551. **C. glabra** Clarke. Herb. Calc. Beddome ! and Gamble !. 3,000′.

702. Aneilema Br.

1552. **A. herbaceum** Wall. (*A. lineolatum* Kunth.)
Flowers and fruits September. 2,250′.

1553. **A. dimorphum** Dalz. A. C.
2,600′.

1554. **A. spiratum** Br.
Flowers and fruits December. 3,000′.

1555. **A. paucifiorum** Wight. No. 3503.
Flowers and fruits October to December. 2,000′—2,500′.

1556. **A. giganteum** Br.
Flowers and fruits January. 3,000′.

1557. **A. paniculatum** Wall. No. 3240.
Flowers and fruits December. 3,500′.

1558. **A. montanum** Wight.
Flowers and fruits September to October. 2,500′—4,000′.

1559. **A. scaberrimum** Kunth.
Flowers January and April. 2,000′—3,000′.

703. Cyanotis Don.

1560. **C. cristata** Schultes.
Flowers August and December. 2,000′—3,000′.

1561. **C. arachnoidea** Clarke.
Flowers January. On Ibex Hill, 4,500′.

1562. **C. villosa** Schultes.
Flowers and fruits January. 4,000′.

1563. **C. fasciculata** Schultes. No. 3202.
Flowers and fruits December. 1,000′—3,000′.

1564. **C. axillaris** R. & S.
Flowers July to August. 2,000′—3,000′.

704. Floscopa Lour.

1565. **F. scandens** Lour.
Flowers April. In dense evergreen forests; 3,300′—4,300′.

CXXXII. JUNCACEÆ.

705. Luzula DC.

1566. **L. campestris** DC. F. B. I.
"5,000′—7,000′."

CXXXIII. PALMACEÆ.

706. Caryota L.

1567. **C. urens** L.
Flowers during the rains and cold season. Not very common. 2,000′—4,000′.

707. Phoenix L.

1568. **P. humilis** Royle. Tamil *Icham.*
Flowers January; fruits May. 3,000′—5,000′.

708. Calamus L.

1569. **C. pseudo-tenuis** Becc.
In dense evergreen forest; 2,500′—4,500′.

1570. C. Rotang L. No. 3447.
Flowers May. Along the Amaravati river, in the dry eastern region; 1,000′.

709. Borassus L.

1571. B. flabellifer L.
Planted and occasionally self sown, at the foot of the hills.

710. Cocos L.

1572. C. nucifera L.
Planted at the foot of the hills.

CXXXIV. PANDANACEÆ.

711. Pandanus L. f.

1573. P. tectorius Soland. (*P. fascicularis* Lam.)
In swampy places and near streams; 1,900′—2,800′.

CXXXV. TYPHACEÆ.

712. Typha L.

1574. T. angustata B. & C.
Flowers rains; fruits September to December. At the foot of the hills.

CXXXVI. ARACEÆ.

713. Cryptocoryne Fisch.

1575. C. ciliata Fisch. No. 3750.
Flowers June. Banks of the Amaravati river; 1,100′.

714. Lagenandra Dalz.

1576. L. toxicaria Dalz. No. 3365.
Flowers April to May; fruits May. In stagnating water, in the wet forests; 1,500′—3,000′.

715. Pistia L.

1577. P. Stratiotes L.
Flowers December. In ponds and wells at the foot of the hills.

716. Arisæma Mart.

1578. A. tortuosum Schott. No. 3564.
Flowers April ; above 6,500′.

1579. A. Leschenaultii Bl.
Flowers April ; above 4,500′.

717. Theriophonum Bl.

1580. T. crenatum Bl.
Near Mount Stuart ; 2,000′—2,400′.

1581. T. Dalzellii Schott. No. 3745.
Flowers June. On dry rocky slopes in the eastern region ; 2,000′.

718. Synantherias Schott

1582. S. sylvatica Schott.
Near Mount Stuart ; 2,400′.

719. Remusatia Schott

1583. R. vivipara Schott. No. 3357.
Flowers April ; 2,800′.

720. Colocasia L.

1584. C. antiquorum Schott
Flowers April. 2,000′—3,500′.

721. Rhaphidophora Schott

1585. R. pertusa Schott
In evergreen forest ; 3,000′.

722. Anaphyllum Schott

1586. A. pertusa Schott
Flowers May and December. In evergreen forest ; 3,000′. A most evil-smelling plant when in flower.

1587. A. Beddomei Engl. No. 3739.
Flowers May. In dense evergreen forest; 4,000′.

723. Pothos L.

1588. P. scandens L.
Flowers April and November. In dense evergreen forest; 2,400′—3,000′.

CXXXVII. LEMNACEÆ.

724. Lemna L.

1589. L. minor L.
At the foot of the hills.

CXXXVIII. ERIOCAULACEÆ.

725. Eriocaulon L.

1590. E. odoratum Dalz. No. 3212.
Flowers April and December. 3,000′—7,500′.

1591. E. cristatum Mart. A.C.

1592. E. Brownianum Mart.
Flowers April; above 6,000′.

1593. E. trilobium Ham. No. 3325.
Flowers April; 7500′.

1594. E. xeranthemum Mart. No. 3458.
Flowers and fruits July. 2,300′.

CXXXIX. CYPERACEÆ.

726. Kyllingia Rottler.

1595. K. triceps Roth.
Flowers November. 1,000′—1,300′.

727. Cyperus L.

1596. C. eragrostis Vahl. (*Pycreus sanguinolentus* Nees). No. 3204.
Flowers December. 3,200′.

1597. C. uncinatus Poir. (*C. cuspidatus* H.B.K.) No. 3203.
Flowers December. 3,300′.

728. Fimbristylis Vahl.

1598. F. monticola Steud. F.B.I. Beddome !

729. Scleria Berg.

1599. S. caricina Benth.
Flowers and fruits December. 2,000′.

730. Carex L.

1600. C. nubigena D. Don. F.B.I.
"5,000′—8,000′."

1601. C. phacota Spreng. No. 3568.
Flowers April. 6,500′

1602. C. baccans Nees. No. 3670.
Flowers December. 3,000′.

CXL. GRAMINACEÆ.

731. Paspalum L.

1603. P. scrobiculatum L.
Flowersy. July 1900′.

1604. P. longiflorum Retz. A.C.

1605. P. Royleanum Ness. A.C.

732. Digitaria Rich.

1606. D. sanguinalis Scop. (*Paspalum sanguinalis* Lam.) A.C.
VAR. **ciliaris** Prain.
Flowers December. At the foot of the hills.
VAR. **Griffithi** Hook.f. Nos. 3631, 3634.
Flowers August to December. 2,200.′

733. Isachne Br.

1607. I. Kunthiana W. & A. VAR. **latifolia** Hook.f. F.B.I. Beddome !

1608. I. Gardneri Benth. No. 3343.
Flowers April. 7,600′.

734. Panicum L.

1609. P. villosum Lam. A.C.

1610. P. ramosum L. A.C.

1611. P. indicum L. A.C.

1612. P. semiverticillatum Rottl. F.B.I. Beddome !

1613. P. remotum Retz. F.B.I. Beddome !

1614. P. trypheron Sch. A.C.

1615. P. montanum Roxb.
Flowers December to January. Western moist forests; 2,000′—3,000′.

1616. P. pilipes Nees.
Flowers August and January. Karianshola; 2,400″.

735. Axonopus Beauv.

1617. A. cimicinus Beauv. A.C.

736. Oplismenus Beauv.

1618. O. compositus Beauv.
Flowers December to January. 2,200′.

737. Arundinella Raddi.

1619. A. avenacea Munro. A.C.
Iyerpadi.

1620. A. mesophylla Nees. No. 3650.
Flowers October and January. 2,000′—3,000′.

1621. A. agrostoides Trin. A.C.
VAR. **ciliata** Hook.f. No. 3651.
Flowers October. 3,300′.

1622. A. fuscata Nees. A.C.

738. Setaria Beauv.

1623. S. glauca Beauv.
Flowers August. 1,800′—3,000′.

1624. S. verticillata Beauv. A.C.

1625. S. plicata T. Cooke. (*Panicum plicatum* Lam.)
Flowers December. 3,000′.

739. Pennisetum Pers.

1626. P. cenchroides Rich.
Flowers May to June. 1,100′.

740. Trachys Pers.

1627. T. mucronata Pers.
Flowers August. At the foot of the hills.

741. Tragus Haller.

1628. T. racemosus Scop.
Flowers December. At the foot of the hills.

742. Perotis Ait.

1629. P. latifolia Ait. Tamil *Kudraival*.
Flowers February. At the foot of the hills.

743. Coix L.

1630. C. Lachryma-Jobi L.
Flowers October, January and May; fruits May. 2,000′—4,000′.

744. Imperata Cyrill.

1631. I. arundinacea Cyrill.
Fruits April. 3,500′.

745. Pollinia Trin.

1632. P. phæothrix Hack. A.C.

746. Ischæmum L.

1633. I. ciliare Retz. No. 3268.
Flowers January. 4,000′.

1634. I. hirtum Hack. No. 3232.
Flowers December. 2,400′.

747. Pogonatherum Beauv.

1635. P. crinitum Trin.
Flowers December. 3,000′.

748. Apluda L.

1636. A. varia Hack.
Flowers January. 2,250′.

749. Rothbœllia L. f.

1637. R. exaltata L. f.
Flowers August. 1,800′.

750. Manisuris Sw.

1638. M. granularis L.
Flowers and fruits August. 2,200′.

751. Andropogon L.

1639. A. Schmidii Hook. f.
Flowers December to January. Mount Stuart; 2,200′.

1640. A. contortus L.
Flowers August to December; fruits December. 1,200′—3,000′.

1641. A Nardus L. No. 3330.
Flowers April. 3,000′—6,500′.

752. Themeda Forsk.

1642. T. Cymbaria Hack. (*Anthistiria Cymbaria* Roxb.)
Flowers January. 2,300′.

753. Garnotia Brongn.

1643. G. tenuiglumis Stapf. No. 3228.
Flowers December. 3,500′.

754. Sporobolus Br.

1644. S. diander Beauv.
Flowers December. Mount Stuart; 2,100′.

755. Cynodon Pers.

1645. C. dactylon Pers.
Flowers June. At the foot of the hills.

756. Chloris Sw.

1646. C. incompleta Roth. No. 3770.
Flowers October. 2,000′.

1647. C. barbata Sw.
Flowers June. 1,200′.

757. Eleusin Gærtn.

1648. **E. coracana** Gærtn. Tamil *Ragi*.
Cultivated along the foot of the hills and to a small extent by the hillmen.

1649. **E. verticillata** Roxb.
Flowers July. 2,200′.

758. Phragmites Trin.

1650. **P. Karka** Trin. No. 3661.
Flowers December. 1,000′—2,600′.

759. Eragrostis Beauv.

1651. **E. amabilis** W. & A.
Flowers July and December; fruits December. 2,000′—3,000′.

1652. **E. bifaria** Wight. A. C.

1653. **E. coromandeliana** Trin.
Flowers August and December. 1,000′—2,300′.

760. Oropetium Trin.

1654. **O. Thomœum** Trin.
Fruits February. In the dry eastern region; 1,200′.

761. Arundinaria Mich.

1655. **A. Wightiana** Nees.
Along streams in the open grass lands; above 6,500′.

762. Bambusa Schreb.

1655. **B. arundiuacea** Willd. Tamil *Peru-mungil*.
Flowers Februaryto March; fruits April. Throughout the hills from 1,200′—3,500′. Attaining a very large size in the moist western forests; up to 7½″ diameter. There was a very general flowering in the eastern half in 1313 and 1914.

763. Oxytenanthera Munro.

1657. O. Thwaitesii Munro. F. S. 3,500′—6,000′.

1658. O. monostigma Bedd. F. S.

764. Dendrocalamus Nees.

1659. D. strictus Nees. Tamil *Siru-mungil.*
Flowers February to March; fruits April. 1,000′—1,500′.

765. Ochlandra Thw.

1660. O. travancorica Benth. Tamil *Odai.*
Forming dense thickets, especially along streams, in the wet forests; 1,500′—5,000′.

CRYPTOGAMIA.

PTERYDOPHYTA.

CXLI. GLEICHENIACEÆ.

766. Gleichenia Sm.

1661. G. linearis Burm.
Up to 6,000′.

CXLII. POLYPODIACEÆ.

767. Alsophila Br.

1662. A. latebrosa Hook.
Spores April. In evergreen forest; 6,000′—7,500′.

1663. A. glabra Hook. Ferns.
"Up to 4,000′."

1664. A. crinita Hook.
Spores April. 5,000′—7,500′.

768. Peranema Don.

1665. P. cyathioides Don. Ferns.
6,000′.

769. Hymenophyllum L.

1666. H. exsertum Wall. No. 3583.
Spores May. On tree trunks in evergreen forest; 3,300′.

1667. H. javanicum Spreng. Ferns.
"Up to 4,000′."

770. Trichomanes Sm.

1668. T. neilgherrense Bedd. Ferns.

1669. T. bipunctatum Poir. No. 3403.
Spores May. Banks of the Torakadavu, 4,000′.

1670. T. rigidum Sw. Ferns.
"Moist dark localities, 3,000′—4,000′."

771. Leucostegia Presl.

1671. L. immersa Wall. Ferns.
3,000′—4,000′, rather rare.

1672. L. pulchra Don. Ferns.
Common on tree trunks in the teak forests.

772. Prosaptia Presl.

1673. P. Emersoni Presl. Ferns.
"3,000′—4,000′ rare."

1674. P. contigua Sw. Ferns.
"On trees and rocks. Banks of the Toracadoo river, at an elevation of 4,500′—a rare fern."

773. Davallia Sm.

1675. D. bullata Wall. No. 3376.
Spores April. On tree trunks; 2,000′—3,000′.

774. Microlepia Presl.

1676. M. pinnata Cav. Ferns.
Rare.

1677. M. platyphylla Don. Ferns.
Not common.

1678. M. speluncæ L.
Spores April. 7,000′.

775. Stenoloma Fee.

1679. S. chinensis Sw. Ferns.

776. Lindsaya Dryand.

1680. L. cultrata Sw.
Spores Aprll. 7,000′—8,000′.

777. Adiantum L.

1681. A. lunulatum Burm.
Spores July. 2,000′—3,000′.

1682. A. caudatum L.
Spores December. 1,000′—3,000′.

1683. A. hispidulum Sw. No. 3392.
Spores May and December. 2,500′—4,000′.

778. Cheilanthes Sw.

1684. C. mysorensis Wall.
Spores April, September and December. 1,000′—3,000′.

1685. C. varians Wall. Ferns.
Rare.

1686. C. tenuifolia. Sw.
Spores July and December. 2,000′—3,000′.

1687. C. farinosa Kaulf.
Spores May. 4,000′—6,000′.

779 Pellæa Link.

1688. P. boivini Hook. Ferns.
"Dry rocky places. 4,000′."

1689. P. falcata Fée. Ferns.
"In moist woods, 3,000′—4,000′."

780. Pteris L.

1690. P. cretica L. Ferns.
"Very common on the higher ranges."

1691. P. pellucida Presl.
Spores April and August. 2,000′—2,500′.

1692. P. quadriaurita Retz.
Spores April. Common in moist forests.

VAR. **argentea** Bedd.
Spores April. 4,000′—7,000′.

1693. P. patens Hook.
Spores May. 4,500′.

1694. P. longipes Don. Ferns.
"2,500′—4,000′."

1695. P. aquilina L.
Spores April to May. Above 4,000′.

781. Campteria Presl.

1696. C. Kleiniana Presl. Ferns.
"4,000′—5,000′."

782. Lithobrochia Presl.

1697. L. incisa Thunb.
Spores May. In wet forests; 3,300′.

783. **Ceratopteris** Brong.

1698. C. thalictroides L.
Spores October. In the moist western forests; 1,800′—2,000′.

784. **Lomaria** Willd.

699 L. Patersoni Spreng. Ferns.
"5,000′—8,000′."

785. **Blechnum** L.

1700. B. orientale L.
Spores January to April. In wet forests; 1,900′—,4,000′.

786. **Thamnopteris** Presl.

1701. T. Nidus VAR. **phyllitidis** Don. Ferns.
Moist woods; 3,000′—4,000′.

787. **Asplenium**. L.

1702. A. ensiforme Wall. Ferns.
"Banks of Torakadavu stream, 4,500′—rare."

1703. A. normale Don.
Spores May. In evergreen forest; 3,000′—6,000′.
VAR. B. Bedd. Ferns.
"4000′".

1704. A. Wightianum Wall. Ferns.
"2,000′—4,000′."
VAR. **microphyllum** Baker. Ferns.
"Banks of Torakadu and elsewhere."

1705. A. tenerum Forst. No. 3379.
Spores April. In dense evergreen forest; 3,000′.

1706. A. lunulatum Sw.
Spores April, 6,500′.
VAR. **trapezæforme** Bedd. Ferns.

1707. A. Zenkerianum Kze. No. 3,402

Spores April to May. Above 5,000′. Occasionally with a casual pinnæ orbicular, crenate, about 1″ diameter.

1708. A. auritum Sw. Ferns.
"On rocks in the bed of the Torakadoo river, 4,000′."

1709. A. crinicaule Hance. Ferns.
"3,000'—4,000'."

1710. A. falcatum Lam. No. 3375.
Spores April. On tree trunks; 2,000'.

1711. A. macrophyllum Sw. VAR. **urophyllum** Bedd. Ferns.
"On rocks and trees, 2,000'—4,000'."

1712. A. caudatum Forst. Ferns.
"3,000'."

1713. A. formosum Willd. Ferns.
"Moist woods at the higher elevations."

1714. A. unilaterale Lam. VAR. **rivale** Bedd. Ferns.
"Only in beds of rivers."

1715. A. furcatum Thunb.
Spores May. In evergreen forest; 5,000'.

1716. A. tenuifolium Don. Ferns.
"Higher ranges."

788. Athyrium Roth.

1717. A. Hohenackerianum Kze. Ferns.
"Up to 4,000'."

1718. A. falcatum Bedd. Ferns.
"Dry grassy places, 5,000'."

1719. A. macrocarpum Bl. Ferns.
"Above 3,000'."

1720. A. Filix-foemina Bernh. No. 3346.
Spores April. In swamps; 6,500'.

789. Diplazium Sw.

1721. D. speciosum Mett. No. 3382.
Spores April. In moist forests; 3,300'.

1722. D. polypodioides Mett. Ferns.
"In some part of the Anaimalais it is quite a tree fern."

1723. **D. latifolium** Don. Ferns.

790. **Anisogonium** Presl.

1724. **A. esculentum** Presl. Ferns.
" Banks of streams."

791. **Actiniopteris** Link.

1725. **A. dichotoma** Forsk.
Spores January and September. 1,000′—3,000′.

792. **Polystichum** Roth.

1726. **P. aculeatum** Sw.
At about 4,000′.

793. **Aspidium** Sw.

1727. **A. polymorphum** Wall. Ferns.
"3,000′."

1728. **A. cicutarium** Sw.
Spores July to August. 2,000′—4,000′.

794. **Pleocnemia** Presl.

1729. **P. Trimeni** Bedd. Ferns.

795. **Lastrea** Presl.

1730. **L. amabilis** Bl. Ferns.
"3,000′—4,000′, not common."

1731. **L. aristata** Sw. Ferns.
" Very common."

1732. **L. hirtipes** Bl. Ferns.

1733. **L. calcarata** Bl. VAR. **ciliata** Wall.
Spores May. Beds of streams; 2,000′—4,000′.

1734. **L. syrmatica** Willd. Ferns.
" Rare."

1735. **L. flaccida** Hook. Ferns.
"3,000′."

1736. L. odontoloma Moore. Ferns.
"Above 5,000′."

1737. L. Filix-mas L. Ferns.
"Higher elevations."

VAR. **elongata** Hook. & Grev. Ferns.
"5,000′ and upwards."

VAR. **cochleata** Don. Ferns.
"2,500′—4,000′."

1738. L. deparioides Moore. Ferns.
"Rare, 2,000′."

1739. L. crenata Forst. Ferns.
"5,000′, rare."

1740. L. dissecta Forst. Ferns.

1741. L. Boryana Willd. Ferns.
"3,000′."

796. Nephrodium Schott.

1742. N. Otaria Kze. Ferns.
"Abundant in teak forest, 1,000′—4,000′, appearing in the rainy season."

1743. N. unitum L. Ferns.
"Not very common, in swamps, 3,000′."

1744. N. pteroides Bl. Ferns.
"Moist forests and outskirts of sholas, 2,000′—4,000′."

1745. N. extensum Bl. Ferns.

1746. N. Arbuscula Desv. No. 3364.
Spores April. Beds of streams; 3,000′—4,000′.

1747. N. pennigerum Bl.
Spores April. 4,000′.

1748. N. molle Desv.
Spores April. 4,000′—4,500′.

797. **Nephrolepis** Schott.

1749. **N. cordifolia** L.
Spores January and August. 2,500′—4,500′.

1750. **N. exaltata** Schott. No. 3294.
Spores December and April. 1,900′—3,300′.

798. **Oleandra** Cav.

1751. **O. neriiformis** Cav. Ferns.
"Rare."

1752. **O. musæfolia** Kze. Ferns.
"In dense evergreen forest at 4,000′, rare."

799. **Polypodium** L.

1753. **P. parasiticum** Mett. Ferns.
"Common on trees, 5,000′."

1754. **P. obliquatum** Bl. Ferns.
"Torakadu valley, 5,000′."

1755. **P. subfalcatum** Bl. Ferns.
"Torakadu valley, 4,500′."

800. **Niphobolus** Kaulf.

1756. **N. Gardneri** Mett. Ferns.
"5,000′."

1757. **N. nummulariæfolius** Sw. Ferns.
"Common in the lower forests."

801. **Drynaria** Bory.

1758. **D. quercifolia** L.
Spores April, July and December. 1,800′—2,300′.

802. **Pleopeltis** H. & B.

1759. **P. linearis** Thunb.
Spores May to September. 3,000′—6,200′.

1760. P. membranacea Don.
Spores May. In dense evergreen forest; 4,000′.

1761. P. punctata L.
Spores April. In dense evergreen forest; 3,000′.

1762. P. pteropus Bl. VAR. **minor**. No. 3371.
Spores April. 1,900′—4,000′.

1763. P. hastata Thunb.
Spores April to May. 3,000′—7,000′.

1764. P. leiorhiza Wall. No. 3383.
Spores April. On tree trunks; 4,000′.

803. Gymnogramme Desv.

1765. G. Totta Schl. No. 3401.
Spores May. In dense evergreen forest; 5,000′.

804. Loxogramme Presl.

1766. L. involuta Don.
Spores April. In evergreen forest; 3,000′.

805. Meniscium Schereb.

1767. M. triphyllum Sw. Ferns.
"Gregarious and forming very large beds, 2,000′—3,000′."

806. Antrophyum Kaulf.

1768. A. reticulatum Kaulf. Ferns.
"3,000′, rather rare."

807. Vittaria Sm.

1769. V. elongata Sw. No. 3374.
Spores April to May. Along streams; 2,000′—3,300′.

808. Drymoglossum Presl.

1770. D. piloselloides Presl. No. 3467.
Spores August. 2,800′.

809. Hemionitis L.

1771. **H. arifolia** Burm.
Spores September to December. 2,000′—4,000′.

810. Elaphoglossum Schott.

1772. **E. latifolium** Sw. Ferns.
"On trees on the higher ranges."

1773. **E. stigmatolepis** Fée. Ferns.
"Common in ravines at no great elevation."

1774. **E. viscosum** Sw.
Spores May to December. 2,600′.—3,600′.

1775. **E. squamosum** Sw. Ferns.
"3,000′—4,000′, not common."

811. Stenochlæna J. Sm.

1776. **S. palustre** L. Ferns.
"Moist forests up to 4,000′."

812. Polybothrya H. B. K.

1777. **P. appendiculata** Willd. Ferns.
"Moist evergreen forests at no great elevation".
VAR. **asplenifolia** Bory. Ferns.
"Moist evergreen forests up to nearly 4,000′."

813. Gymnopteris Bernh.

1778. **G. variabilis** Hook.
Spores April. 7,500′.

1779. **G. quercifolia** Retz. Ferns.

1780. **G. contaminans** Wall. No. 3515.
Spores March to December. In dense evergreen forest; 2,500′—4,000′.

CXLIII. OSMUNDACEÆ.

814. Osmunda L.

1781. O. regalis L.
Spores April. Along streams ; above 6,000′.

CXLIV. SCHIZAEACEÆ.

815. Anemia Sw.

1782. A. tomentosa, Sw. Ferns.
"Dry rocky places, 4,000′."

816. Lygodium.

1783. L. flexuosum Sw. No. 3500.
Spores October. 1,800′—2,500′.

CXLV. MARATTIACEÆ.

817. Angiopteris Hoffm.

1784. A. evecta Hoffm.
Spores March to April. Wet forests ; 3,000′—4,000′.

818. Marattia Sm.

1785. M. fraxinea Sm. No. 3585.
Spores May. In evergreen forest ; 4,000′.

CXLVI. OPHIOGLOSSACEÆ.

819. Ophioglossum L.

1786. O. nudicaule L. f. Ferns.
"In wet grassy places, 2,500′."

1787. O. fibrosum Schum. Ferns.
"In swampy places in teak forest, 2,000′—3,000′."

1788. O. reticulatum L. No. 3762.
Spores September to October. Mount Stuart; 2,200′.

820. Helminthostachys Kaulf.

1789. H. zeylanica L. Ferns.
"Moist bamboo clumps in teak forest, 2,000′—3,000′."

821. Botrychium Sw.

1790. B. daucifolium Wall. Ferns.
"3,000′."

CXLVII. MARSILIACEÆ.

822. Marsilia L.

1791. M. minuta L.
Conceptacles January. 1,000′.

CXLVIII. LYCOPODIACEÆ.

823. Lycopodium L.

1792. L. cernuum L.
4,000′—7,000′.

1793. L. phlegmaria L.
On trees in moist forests; 1,900′.

1794. L. Selago L. No. 3317.
Sporophores March. 3,000′.

824. Psilotum Sw.

1795. P. triquetrum Sw.
3,200′.

CXLIX. SELAGINELLACEÆ.

825. Selaginella Spring.

1796. S. rupestris Spring. No. 3229.
Sporangia December. On rocks; 3,500′.

1797. S. plumosa Baker. No. 3271.
Sporangia January. In wet woods; 4,000′—5,000′.

1798. S. caulescens Spring. No. 3640.
Sporangia September.

BRYOPHYTA.

826. Pogonatum Palis.

1799 P. Teysmannianum Doz. & Molk. No. 3266.
Sporophores January. On soil banks; 4,000′.

827. Rhizogonium Brid.

1800. R. spiniforme L. No. 3411.
Sporophores May. On rocks; 5,000′.

828. Funaria Schreb.

1801. F. hygrometrica Sibth. No. 3211.
Sporophores December On rocks; 3,000′.

829. Bryum Dill.

1802 B. argenteum L. VAR. **lanatum** B. & S. No. 3210.
Sporophores December. On rocks; 3,000′.

VAR. **australe** Rehm. 3412.
Sporophores May. On rocks; 5,000′.

830. Erythrodontium Hamp.

1803. E. julaceum Par. Nos. 3231, 3239.
Sporophores December. On fallen tree trunks; 2,500′—3,000′.

831. Macromitrium Brid.

1804. M. sulcatum Brid.
Sporophores January. On tree trunks ; 4,000′.

FUNGI.

832. Gambleola.

1805. G. cornuta Mass.
On *Mahonia Leschenaultiana* Tak.

833. Uncinula Lev.

1806. U. tectonæ Salmon.
On *Tectona grandis* L.

834. Puccinia Persoon.

1807. P. aggregata Syd.
On *Strobilanthes barbatus.* Nees.

835. Æcidium.

1808. Æ. bicolor Sacc.
On *Maba buxifolia* Pers.

836. Uromyces Link.

1809 U. melothriæ P. Hems.
On *Melothria zeylanica* C. B. Clarke.

837. Polystictus Fries.

1810. P. sanguineus Fr.
Carpophores January. Tekkadi forest ; 1,900′. On dead twigs.

838. Trametes Fries.

1811. T. lobata Berk.
Carpophores January. Tekkadi forests ; 1,900′. On dead twigs.

APPENDIX A.

Additional species from "The Flora of the Presidency of Madras" by J. S. Gamble, C.I.E., F.R.S., and from "A Revision of the Indian Species of *Rotala*" by Father E. Blatter and Dr. Hallberg. (Journal of the Bombay Natural History Society, Vol. XXV, page 709.)

NOTE: The serial numbers are in continuation of the original list and those in brackets denote the place they should occupy in it.

XXXV. CELASTRACEÆ.

1812. (292 a) Microtropis Stocksii Gamble.
Barber.

1813. (301 a) Elæodendron paniculatum W. & A. (*E. glaucum* Pers. *in part*).

1814. (302 a) Salacia Beddomei Gamble.
Beddome'

XXXVII. VITACEÆ.

1815. (320 a) Tetrastigma sulcatum Gamble n. comb. (*Vitis sulcata* Laws.)
Up to 4,500′.

1816. (320 b) Tetrastigma muricatum Gamble n. comb. (*Vitis lanceolaria* Laws in part.)

1817. (316 a) Ampelocissus araneosa Planch. (*Vitis araneosa* Laws.)
Up to 4,500′.

1818. (316 b) Ampelocissus latifolia Planch. (*Vitis latifolia* Roxb.)

1819. (321 a) Cayratia auriculata Gamble n. comb. (*Vitis auriculata* Wall.)

1820. (322 a) Leea Wightii C. B. Clarke.
It is very possible that this is my No. 3808—see under *Leea aspera* Wal No. 322 of list.

1821. (324 a) Leea Venkobarowii Gamble.
This may be my No. 3494—see under *Leea setuligera* Clarke No. 324 of list.

XXXVIII. SAPINDACEÆ.

1822. (339 b) **Turpinia malabarica** Gamble.

1823. (330 a) **Allophylus concanicus** Radlk. VAR. **lanceolatus** Gamble "Up to 4,000′."

1824. (332 a) **Sapindus emarginatus** Vahl. (*S. trifoliatus* Hiern in part)

XL. ANACARDIACEÆ.

1825. (354 a) **Nothopegia Heyneana** Gamble (*N. Colebrookiana* Bl. VAR. *Heyneana* Hook. f.)

1826. (354 b) **Nothopegia Dalzellii** Gamble (*N. Colebrookiana* Bl. in part).

XLII. CONNARACEÆ.

1827. (359 a) **Connarus sclerocarpus** Schellenb. (*Rourea? sclerocarpa* W. & A.)
"Up to 3,000′."

XLIII. LEGUMINOSÆ.

1828. (365 a) **Crotolaria Fysonii** Dunn.

1829. (380 a) **Crotolaria multiflora** Benth.
"Beddome! At 5,000′."

1830. (387 a) **Crotolaria lævigata** Lam.
"Up to 3,000′."

1831. (408 a) **Tephrosia pulcherrima** Wight. (*T. tinctoria* Pers. VAR. *pulcherrima* Baker.)

1832. (417 a) **Smithia sensitiva** Ait.

1833. (417 b) **Smithia hirsuta** Dalz. (*S. blanda* Wall. VAR. *recemosa* Baker in part).

1834. (417 c) **Smithia blanda** Wall.
"4,000′—6,000′."

1835. (417 d) Smithia capitata Dalz.
" 2,000′-3,000′, in open grass lands."

1836. (423 a) Alysicarpus racemosus Benth. (*A. belgaumensis* Wight. VAR. *racemosus* Baker.)
" 3,000′—7,000′."

1837. (430 a) Desmodium laxum DC.
" Up to 3,000′."

1838. (432 a) Desmodium wynaadense Bedd.
"2,000′—5,000′."

1839. (464 a) Dunbaria Heynei W. & A.
" Up to 3,000′."

LII. LYTHRACEÆ.

(593 a) Rotala Fysonii Blat. & Hallb.
" Anamallais, 2,000′."

This is almost certainly my No. 3218 (No. 593 of the list). Mr. C. C. Calder has kindly compared my No. 4029 with Mr. Fyson's type sheet and finds them identical.

I have recently found the same species at Horsleykonda in the Chittoor District at 3,500′.

The total number comes to 1841 for 2 varieties as included in original list now take specific rank (Nos. 410 and 446 in Appendix B).

APPENDIX B.

Changes in nomenclature proposed in :

(i) The Flora of the Presidency of Madras by J. S. Gamble, C.I.E., F.R.S.

298. **Kurrimia bipartita** Laws. becomes *K. indica* Gamble n. comb.

Family *Celastraceæ* in part becomes *Hippocrateaceæ*.

309. **Scutia indica** Brong. becomes *S. myrtina* Kurz.

Genus *Vitis* L. in part becomes *Tetrastigma* Planch.

320. **Vitis lanceolaria** Roxb. becomes *Tetrastigma lanceolarium* Planch.

Genus *Vitis* L. in part becomes *Ampelocissus* Planch.

316. **Vitis tomentosa** Heyne becomes *Ampelocissus tomentosa* Planch.

Genus Vitis L. in part becomes *Parthenocissus* Planch.

318. **Vitis anamalayana** Bedd. becomes *Parthenocissus neilgherriensis* Planch.

Genus *Vitis* L. in part becomes *Cissus* L. (modified).

311. **Vitis quadrangularis** Wall. becomes *Cissus quadrangularis* L.

312. **Vitis repens** W. & A..becomes *Cissus repens* Lam.

315. **Vitis Linnæi** Wall. becomes *Cissus vitiginea* L.

313. **Vitis discolor** Dalz. becomes *Cissus discolor* Bl.

314. **Vitis gigantea** Bedd. becomes *Cissus gigantea* Planch.

Genus *Vitis* L. in part becomes *Cayratia* Juss.

321. **Vitis pedata** Vahl. becomes *Cayratia pedata* Juss.

317. **Vitis trifolia** L. becomes *Cayratia carnosa* Gagnep.

Family *Sapindaceae* in part become *Staphyleaceæ.*

339. **Turpinia pomifera** DC. in part becomes *Turpinia nepalensis* Wall.

330. **Allophylus Cobbe** Bl. in part becomes *Allophylus Rheedii* Radlk.

Genus *Hemigyrosa* Bl. becomes *Lepisanthes* Bl.

329. **Hemigyrosa canescens** Thw. becomes *Lepisanthes tetraphylla* Radlk.

328. **Hemigyrosa deficiens** Bedd. becomes *Lepisanthes deficiens* Radlk.

Genus *Sapindus* L. in part becomes *Thraulococcus* Radlk.

333. **Sapindus erectus** Hiern becomes *Thraulococcus erectus* Radlk.

Genus *Sapindus* L. in part becomes *Aphania* Bl.

334. **Sapindus bifoliatus** Hiern becomes *Aphania bifoliata* Radlk.

356. **Spondias acuminata** Roxb. is reduced to a small-leaved form of *S. mangifera* Willd.

354. **Nothopegia Colebrookiana** Hook. f. in part becomes *N. Beddomei* Gamble.

357. **Moringa pterygosperma** Gaertn. becomes *M. oleifera* Lam.

390. **Cyamopsis psoralioides** DC. becomes *C. tetragonoloba* Taub.

401. **Indigofera Houer** Forst. becomes *I. articulata* Gouan.

410. **Tephrosia purpurea** Pers. VAR. **maxima** Baker becomes *T. maxima* Pers.

411. **Tephrosia villosa** Pers. becomes *T. hirta* Ham.

417. **Smithia blanda** Wall. VAR. **racemosa** Baker becomes *S. racemosa* Heyne.

433. **Desmodium parviflorum** Baker part in becomes *Alysicarpus parviflorus* Dalz.

440. **Teramnus labialis** Spreng. VAR. **mollis** Baker becomes *T. mollis* Benth.

446. **Galactia tenuiflora** W. & A. VAR. **villosa** Baker becomes *G. villosa* W. & A.

476. **Flemingia vestita** Benth. VAR. **nilgheriensis** Baker becomes *Flemingia nilgheriensis* Wight.

(ii) A Revision of the Indian Species of *Rotala* by Father E. Blatter and Dr. Hallberg.

Genus *Ammannia* L. in part becomes *Rotala* L.

589. **Ammannia pentandra** Roxb. becomes *Rotala pentandra* Blat. & Hallb. n. comb.

588. **Ammannia peploides** Spreng. becomes *Rotala indica* Blat. & Hallb. n. comb.

ADDENDUM.

Since the above note went to the press I have had another opportunity of visiting the Anaimalais Hills and also the 3rd part of Gamble's "Flora of the Presidency of Madras" has been issued. From these two sources I am able to add the following 17 new species and varieties to the list. Those found by me are indicated by an asterisk.

RUTACEÆ.

*1. **Paramignya monophylla** Wight.
In evergreen forest at Karian shola; 2,500.

LEGUMINOSÆ.

2. **Cassia Leschenaultiana** DC. (*C. mimusoides* Linn. VAR. *Wallichiana Baker*).
"Up to 6,000′."

CRASSULACEÆ.

3. **Kalanchoe floribunda** W. & A. VAR. **glabra** C. B. Clarke.
"At 2,000—4,000′."

MELASTOMACEÆ.

4. **Memecylon molestum** Cogn. (*M. edule* Roxb. VAR. *molesta* C. B. Clarke).
"At about 6,000′."

ONAGRACEÆ.

5. **Ludwigia prostrata** Roxb.
"Swamps in the Anamalais at 2,000′. (Beddome)."

SAMYDACEÆ.

6. Casearia coriacea Thw.
" Shola forests above 6,000'."

CUCURBITACEÆ.

7. Trichosanthes anamalayana Bedd.
" In the Anamalai Hills at 4,4000'."

BEGONIACEÆ.

8. Begonia anamallayana Bedd.
" Anamalai Hills, in the moist forests, at 3,000'."

UMBELLIFERÆ.

9. Heracleum aquilegifolium C. B. Clarke.
" In the Anamalai forests (Wight)."

10. Heracleum Candolleanum Gamble n. comb. (*H. rigens* Wall. VAR. *Candolleana* C. B. Clarke).
" Anamalai Hills, above 6,000', common."

CORNACEÆ.

***11. Alangium Lamarckii** Thw. VAR. *prox* **glanduosa** No. 4469.
Fruits August. In evergreen forest at Karianshola; 2,500'.

EUPHORBIACEÆ.

***12. Phyllanthus indicus** Muell.-Arg. No. 4464.
Fruits August. In evergreen forest at Karianshola 2,500.

URTICACEAE.

***13. Ficus Dalhousiæ** Miq. No. 4468 Tamil *Pey-yal*.
Flowers August. River banks in rocky places, near Mount Stuart; 2,000'.

SGPI—16DBSI—30-8-11—

ORCHIDACEAE.

***14. Pholidota imbricata** Lindl. No. 4473.

Flowers August. Near Mount Stuart ; 2,500′.

***15. Polystachya Wightii** Reichb. No. 4480.

Flowers August. In dense, evergreen forest at Karianshola ; 2,500′.

***16. Aphyllorchis Prainii** Hook. f. No. 4479.

Flowers August. In dense, evergreen forest at Karianshola ; 2,500′. (This may prove to be *A. montana*).

***17. Habenaria digitata** Lindl. No. 4474.

Flowers August. In the open, near sheet rock, near Mount Stuart ; 2,800.′

SGPI—18DB51—30-8-21—

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Synonyms and species incidentally mentioned are in italics.

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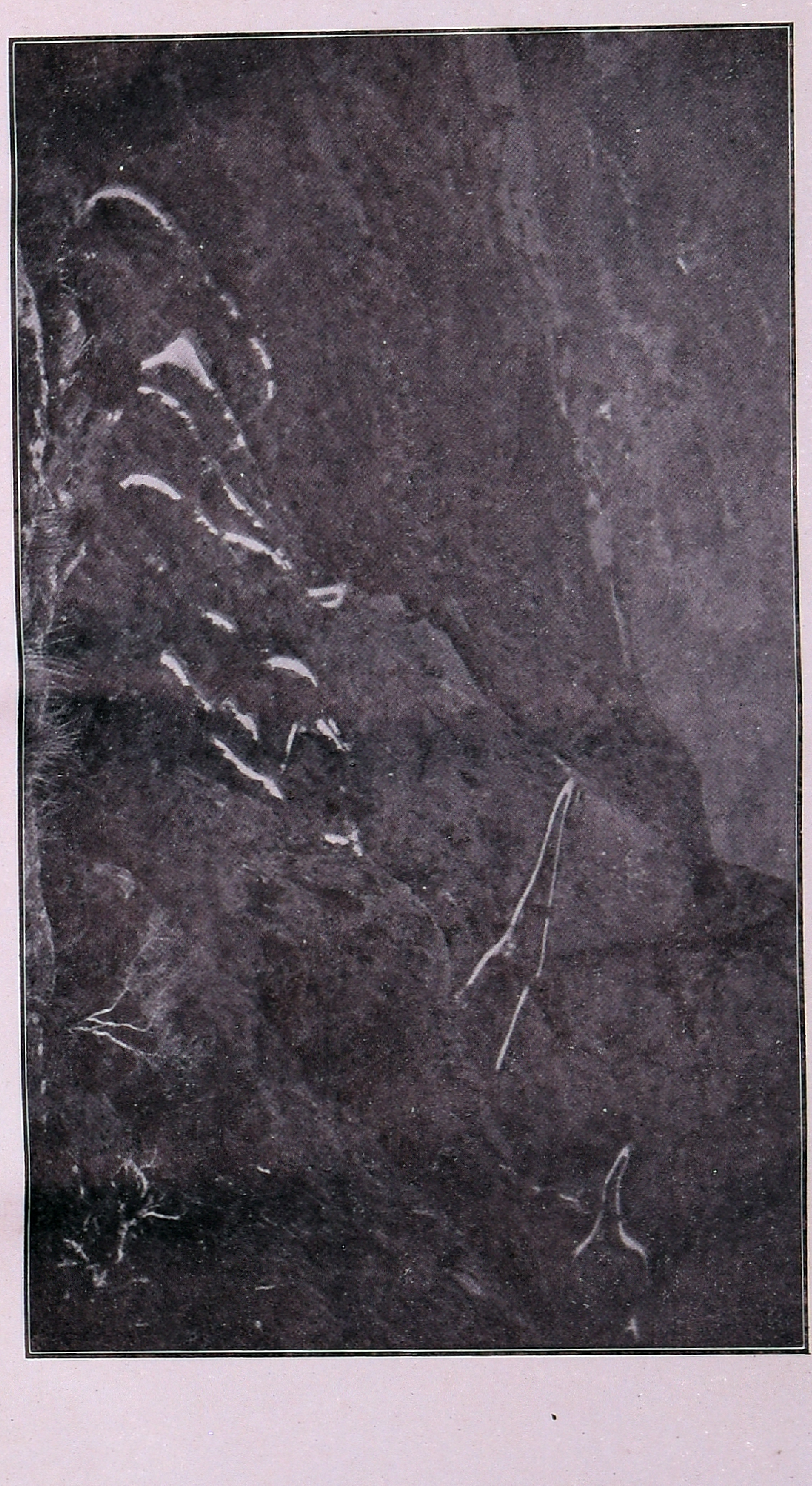

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